THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: 3617 CENTRAL (3 lines).

Established in ENGLAND, 1859.]

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C. 4.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON."
[Charged as two words only.]

Established in [AUSTRALASIA, 1885.

No. 1,968. Vol. LXXXIX. OCTOBER 13, 1917.

Subscription Rate, 12s. 6d. per annum
Single Copies, 6d. each. Winter and Summer Issues, 1s. each. Post Free.

TELEGRAMS: "OPIUM."
TELEPHONES: City 984 & 4038.

The Best House For All

Pharmaceutical Products

Proprietors of the

"SILVER CHURN" Dairy Preparations

OLDFIELD, PATTINSON & CO., MANCHESTER

MANUFACTURERS OF

Extract of Malt with Cod Liver Oil,
Emulsion of Cod Liver Oil,
Norwegian Cod Liver Oil.

SUPPLIED PACKED OR IN BULK.

Samples and Quotations on Request.

ALLEN & HANBURYS, Ltd., LONDON.

May, Roberts' Traveller.

No. 4023 CITY. OCTOBER 13, 1917. LONDON & DUBLIN.

EXTRACT of MALT and COD LIVER OIL

B.P.C.

B.P.C.

Gold Lacquered Lever-Lid Drums.
Attractive Varnished Label in Colours.

Style A.
Square Amber Jars
with Patent Cap.

MAY WE QUOTE YOU

?

Style D.
Round Amber Jars
with Patent Cap.

MAY, ROBERTS & CO., LTD. 7 to 13 Clerkenwell Road, LONDON, E.C. 1.

AND AT 16 WESTMORELAND STREET, DUBLIN.

PERFECT SOLUBLE ESSENCE OF LEMON

IS A PURE FRUIT ESSENCE MADE ENTIRELY FROM LEMONS.

IT IS GUARANTEED FREE FROM TERPENELESS AND SESQUITERPENELESS OIL OF LEMON, OIL OF LIMES, ARTIFICIAL CITRAL OR ANY OTHER ADMIXTURE.

THE ENORMOUS DEMAND FOR THIS PERFECT ESSENCE IS A PROOF OF ITS SUPERLATIVE QUALITY, AND NOTHING APPROACHING IT IN FLAVOUR OR AROMA CAN BE MADE FROM TERPENELESS OILS BY ANY PROCESS.

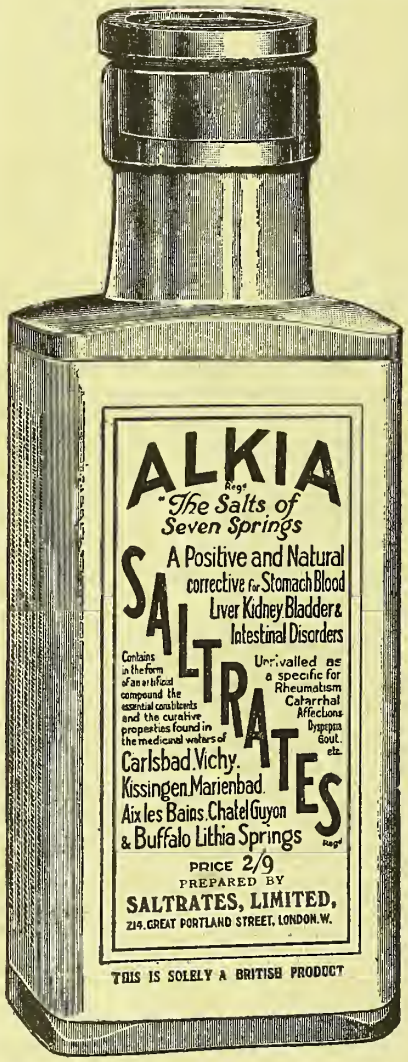
THE SALE OF LEMONADE DEPENDS ENTIRELY ON THE FLAVOURING USED.

STEVENSON & HOWELL, LTD.

SOUTHWARK STREET, LONDON, S.E.

Two Lines which you, Mr. Chemist,

They always mean a pleased and satisfied Customer,



A FEW OF THE

OF ALKIA SALTRATES AND

who have written us praising these

Mr. HARRY LAUDER,
The Great Comedian.

JIMMY WILDE,
World's Champion Boxer.

Mr. EUGENE CORRI,
Famous Referee.

Photo, Hana.
Mr. R. G. KNOWLES,
Famous Traveller, Lecturer, and Music-hall Entertainer.

Photo, Swaine.
Mr. HARRY PILCER,
The well-known Dancer.

Corp. JIM SULLIVAN,
former Middle-weight Champion, now Army Physical Trainer.

IN THE TRENCHES.

Numerous soldiers have written us of the benefits derived from our Saltrates Compounds when used during active service. The following are a few names selected at random from these letters, and published here by special permission:

Sergt. R Schooledge, A.S.C., M.T.; Sergt. C. S. Turner, R.A.M.C.; Corp. T. S. Wilburn, R.A.M.C.; Corp. Thos. Jukes, A.S.C.; Corp. J. R. Pitts, A.S.C., M.T.; Corp. R. Charles, A.S.C., M.T.

ALKIA SALTRATES.

A widely advertised product, which is the most efficient saline on the market, and best value for the money. Being highly concentrated, only very small doses are necessary, and there is no trace of unpleasant, salty taste.

Sells at 2/9 a large bottle.

(P.A.T.A.)

Not designed as the cheapest preparations of their

YOU CAN STOCK THESE GOODS ON *GUARANTEED SALE* TERMS.

Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted.

Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present large advertising campaign.

can Recommend with Full Confidence

because they do exactly what our advertisements say.

PROMINENT USERS

REUDEL BATH SALTRATES

products in the highest possible terms.

GEORGES CARPENTIER,
French Champion Boxer.

Photo, Abdey.
Mlle. GABY DESLYS,
Parisian Artiste.

Photo, Wrather & Buys.
Miss PHYLLIS MONKMAN,
Musical Comedy Actress.

CHAMPION ATHLETES WHO USE OUR PRODUCTS.

Corp. **JACK DONALDSON,** the Lightning Sprinter and World's Record Holder for 75, 100, and 125 yards, writes: "Alkia Saltrates for rheumatic pains and uric acid disorders of all kinds, in my opinion, has no equal; and one total immersion in a hot bath containing Reudel Bath Saltrates will keep all the joints far more supple than a dozen Turkish or vapour baths."

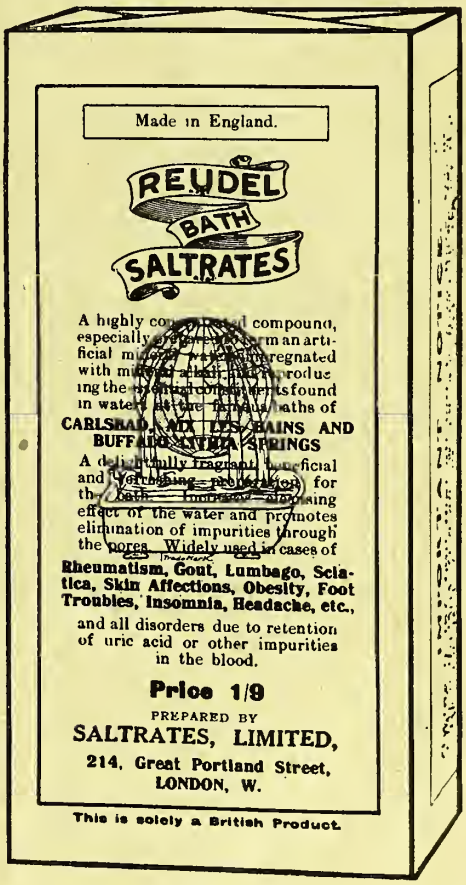
W. G. GEORGE, the veteran Runner, Athlete, and World's Record for the one mile in 4 min. 12¾ sec., states: "I have used Alkia Saltrates and Reudel Bath Saltrates with very beneficial results, and many athletic friends to whom I have recommended these wonderful products are unanimous in declaring them preparations which no sportsman can do without."

Hundreds of commendatory letters on file, and open to examination by anyone.

Members of the medical profession, trained nurses, prominent business men, famous actors and actresses, men well known in the Army, Navy, sporting world, and all walks of life are amongst hundreds of the correspondents who have written us praising our Saltrates in the highest possible terms after having experienced the remarkable curative effects.

The ethics of the medical profession do not permit our making public any physicians' names, but our files of other commendatory letters are open to inspection by anyone at any time.

REUDEL BATH SALTRATES.



The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath or for general toilet purposes.

Especially recommended in cases of foot trouble or rheumatic pains, stiffness, etc. Now being extensively advertised.

Sells at 1/9 and 2/9.

(P.A.T.A.)

kind, but the best producible, regardless of cost.

WE CAN GUARANTEE IMMEDIATE DELIVERY OF ORDERS FOR ANY QUANTITIES.

To meet the enormously increased demand for our Saltrates we have again been obliged to enlarge our manufacturing facilities, and in spite of serious raw material difficulties and constantly rising drug costs, no advances in our prices are being made at present.

By Appointment to His Majesty the King.

FORTY MILLION POUNDS

(£40,000,000)

Lost Annually by Farmers through Pests.

This figure was issued from the Food Production Department as one of the latest estimates of damage done to Farm Crops by pests. It represents an average loss of £2 1s. 0d. per acre of arable land.

Farmers who use

CORVUSINE D.G.

save themselves this loss.

ARE YOU AN AGENT?

If not, you are losing a most lucrative business, and it will pay you to-day to write for terms and to fix up at once for the Autumn trade.

We advertise extensively.
We give liberal terms.

Remember!

CORVUSINE D.G.

has a very ready sale. You only have to hand it over the counter.

An agent in Llangefni, writing us this Spring, says: "Please send another 1½ doz. No. 1 size Corvusine. Selling like hot cakes these days. I want them by Thursday next. Please make a special effort, and oblige."

Particulars and terms from the Manufacturers:

HAWKER & BOTWOOD, LTD.
59 Mark Lane - - London, E.C. 3.

INDEX TO ADVERTISERS IN THIS ISSUE.

The Arabic numerals (1 to 32) in this Index refer to Advertisements in the front of literary pages, the Advertisements following the literary pages are numbered in Roman numerals (i to xxviii)

For more complete Buyers' Guide see "The Chemist & Druggist" Diary, 1917.

AERATORS, Ld., Sparklets 27
ALLCOCK MANUFACTURING CO., Plasters, &c. .. xxi
ALLEN & HANBURYS, Ld., Packed Goods .....Cover, 13
ALLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals xi
AMERICAN COMMERCE CO., Ld., Chemicals..... xii
AMSTERDAM QUININE WORKS, Quinine xiv
ANGLO-FRENCH DRUG CO., Ld., French Props. v
ARNOTT, JAMES, & SONS Ld., Petroleum Jellies 16
AYRTON-GRAHAM, Ld., Window Fittings 29
BAILEY, ROBERT, & SON, Surgical Dressings xxvi
BARKER, R., & SON, Infants' Preservative vii
BATTAM & HEYWOOD, Chemists' Valuers, &c. Col. Supp.
BECKER, SHILLAN & CO., Chemicals xv
BEECHAM, THOMAS, Pills x
BEETHAM, M., & SON, Toilet Articles 20
BERDOR & FISH, Chemists' Valuers, &c. ..... Col. Supp.
BERG, V., & SONS, Chemicals vi
BRWLEY & DRAPER, Ld., Dichroic Ink 22
BLYTHE, W., & CO., Ld., Epsom Salts, Zinc Sulphate xiii
BOWLEY, S., & SON, Parasiticides..... 22, xii
BRITISH DRUG HOUSES, THE, Ld., Chemicals, Foods, &c. .....Cover
BROOK, PARKER & CO., Ld., Herbs, Specialities 9
BROWN & SON, Water Stills..... xx
BRYTSTELE MANUFACTURING CO., Razor Outfits 30
BULL, D. W., Paper ..... Col. Supp.
BURGE, WARREN & RIDGLEY, Ld., India-Rubber Goods, Air Cushions, Anti-Rheumatic Rings xxii
BURROUGH, J., Ld., Absolute Alcohol, S.V.R., S.V.M. Text
BURROUGHS WELLCOME & CO., 'Tabloid' Preps. 31
BUTLER, E. H., & SON, Acetanilide, Aniline Dyes .. xvi
CAMPBELL, ACHNACH & CO., Ld., Hot Water Bottles xxv
CHATELAIN, J. L., French Medicinal Proprietaries .. ix
CHELTINE FOODS CO., Foods 28
CHESTER, A D., & CO. Ld., Chemicals xvii
CHRISTY, T., & CO., Toilet Articles, &c..... 8, i, xx
COLLEGE OF PRECEPTORS 28
COLMAN, J. & J., Ld., Invalid Food 8
CONNELL, A., & CO., Chemicals xiii
COOPER, SON & CO., Ld., Headache Cachets xx
CRAMPTON, J., & CO., Chemicals, Gelatines xiv
CRAWSHAW, E., & CO., Aniline Dyes xx
CRESSWELL BROS. (Branch International Sponge Importers, Ld.), Sponges, Loofahs 24
CUPAL, Ld., Cod-liver Oil Emulsion, Packed Goods.... 32
CUXSON, GERRARD & CO., Ld., Face Powder 26
DAISY, Ld., Headache Powders 10
DAVIS, W., Window Display Stands xviii
D.D.L. CO., Ld., Proprietary..... iv
DODGE & OLCOTT CO., Balsams, Essential Oils 30
DUNCAN, FLOCKHART & CO. Chloroform, Ethers, Bacterial Vaccines, Galenicals viii
EMPIRE PERFUMERY CO., Face Powder 25
ERHARDT, H., & CO., Ld., Tinfoil 18
EVANS SONS LESCHER & WEBB, Ld., Chemicals, Pharmaceuticals, Druggists' Sundries, Serums, Insect Powders ii
FABRA CO., Ld., Chemicals xv
FAIRCHILD BROS & FOSTER, Digestive Products .. 32
FARROW & JACKSON, Ld., Asbestos Filters xvi
FAULDING, F. H., & CO., Emulsions, Soaps..... xii
FINK, F., & CO., Gums xx
FLETCHER, FLETCHER & CO., Ld., Liquors .....Text
FLOREY, HARTLEY, Salicylates xvi
FRAME FOOD CO., Ld., Foods..... 12
FREEMAN BROS., Dentistry 6
FUERST BROS., Ld., Chemicals (Pure and Technical).. xiv
GARDNER, W., & SONS (Gloucester), Ld., Machinery..xxiv
GARTHWAITE, W., Dentistry xx
GIGNOUX FRERES & CO., Male Fern Extract 8
GOWER, JOHN, Books (Secondhand, &c.) .....Col. Supp.
GRAESSER R., Ld., Drugs 23
GREEFF, R. W., & CO., Chemicals (Fine & Technical)..6, 7
GREEN, J. BARCHAM, & SON, Filter Papers 28
HARKER, C. R., STAGG & MORGAN, Ld. 18
HARLEY, T., Rat Poison 23
HAWKER & BOTWOOD, Ld., Wheat Dressing 4
HENRY, T. & W., Calcined Magnesia iv
HEWLETT, C. J., & SON, Ld., Pharmaceuticals 12
HIND, W. J., Bottles.....Col. Supp.
HIND & LUND, Ld., Grinders, Sifters, and Mixers xxiv
HODGES, ROWLAND, Ld., Safety Razors 18
HOVENDEN, R., & SONS, Ld., Druggists' Sundries, &c. xxviii
HUISKING, C. L., American Drugs, Chemicals, &c..... xiii
INGRAM, FREDK. F., CO., Toilet Cream 30
INGRAM, J. G., & SON, Indiarubber Goods, Teats.... xxiii
ISAACS, I., & CO., Medical Glassware..... 23
JOB BROS., Cod Liver Oil (Newfoundland) 27
JOHNSON & SONS (Mnfg. Chts.), Ld., Chemicals xv
JOSEPHS, PHILIP, & SONS, Ld., Shopfittings ..Col Supp.
KAY BROS., Ld., Cements, Flycatchers, Proprietaries xix
KEENE CO., Chemicals 22
KIDSTON, W. M., & CO., Gums, Petroleum Jellies.... 16
KIRBY, H. & T., & CO., Ld., Pills and Tablets..... xiii
LANG, JULES, & SON, Medical & Chemical Glassware xxiv
LANKSHEAR, WICKSTEAD & CO., Ld., Tartaric Acid xvii
LENNOX FOUNDRY CO., Ld., Chemical Plant .. .xxiv
LEP TRANSPORT & DEPOSITORY CO. xix
LESCOL PERFUMERY CO., Perfumes, Soaps..... 26
LEVERMORE, A. & CO. Ld., Chalk (Precipitated) .. xx
LEWIS, H. K., & CO., Ld., Medical Books 28
LILLY, ELI, & CO., Ipecac. Tablets .....Cover
LOFTHOUSE & SALTMER, Ld., Foods Asthma Remedies 22
LONDON CHEMICAL WORKS, Ld., Salicylic Acid, &c. 5
LORIMER, JOHN, Foods, &c. 14
LYSOL, Ld., Disinfectants, Fly Killers xxvii
McGLASHAN, D., Fruit Beverage..... 18
McKESSON & ROBBINS, Capsuled Pills, Dentifrices .. vii
MADERO BROS. INC., Chemicals iii
MALLINCKRODT CHEMICAL WORKS (Canada), Ld. xiv
MANBRE SACCHARINE CO., Ld., Glucose 27
MANGOLD, C., & CO., Chlorates and Perchlorates..... 22
MARTIN, W., Photographics ..... Col. Supp.
MASON BROS. & CHAPMAN, Catheters xx
MAW, S. SON & SONS, Ld., Druggists' Sundries..... II
MAY, ROBERTS & CO., Ld., Extract of Malt and Cod Liver Oil .....Cover
MERSON, G. F., & CO., Surgical Catgut xxvi
MILLAR, A., & CO., Ld., Orange Quinine Wine iv
MITCHELL, N. W., & SONS, Ld., Chemists' Corks 23
MOND NICKEL CO., Copper Sulphate..... vii
MONSANTO CHEMICAL WORKS, Glycerophosphates vii
MULFORD, H. K., CO., Bacterins, Serums vi
NIEUWHOF, SURIE & CO., Ld., Casein..... iv
ODOL CHEMICAL WORKS, Dentifrices..... 20
OLDFIELD, PATTINSON & CO., Opium, Dairy Preps. Cover
OWBRIDGE, W. T., Ld., Lung Tonic xii
PAGE, CHAS. & CO., Chemicals xv
PEAT PRODUCTS (Spbagnol), Ld., Ointment, Soaps .. xxi
PERKEN, SON & CO., Ld., Clinical Thermometers .. 29
PERRY & HOPE, Ld., Epsom Salts xvii
PETRI BROS., Chemicals iv
PICERNO, V. A., Chemicals xvi
PICKARD, IVE & RANKIN, Ld., Acetyl-Salicylic Acid xvii
PIFCO, Ld., Electrical Novelties xviii
POLAK & SCHWARZ, Essential Oils, Synthetic Perfumes 23
POULENC FRERES, Stovaine..... 25
PRICE, A. S., & CO., Tea Sweeteners.....Col. Supp.
RAWORTH, J. E., Patent Agent xx
RED BAND CHEMICAL CO., Packed Goods x
REYNOLDS & BRANSON, Ld., Surgical Instr., &c...Text
RIGAUD-CHAPELLE, French Proprietaries, &c. 17
RIGOLLOT, Mustard Leaves 28
ROBARTES, Ld., Toilet Specialities 30
ROLLIN CHEMICAL CO., INC., Chemicals vi
ROSENBLATT, SAMSON, Chemicals..... xvii
RUCH, A., & CO., Ld. Glassware 19
RUDDOCK & CO., Chemists' Shop Fittings .....Col. Supp.
SALTRATES CO., Bath Salts 2, 3
SANITAS CO., Ld., Disinfectants .....Text
SEEBY DRUG CO., American Drugs, Chemicals, &c. xvi
SHADEINE CO., Hair Dyes xx
SIMS, G. R., HAIR RESTORER CO. 20
SMITH, STANISTREET & CO., Indian Drugs, &c. vii
SMITH, T. & H. Ld., Alkaloids, Resins & Resinoids .. ix
SOLERNOU, VIUDA DE JOSE 18
SOLPORT BROS., Ld., Corn Plasters, Puffs, Loofahs 22
SPENCER, ISAAC, & CO. (Aberdeen), Ld., Cod Liver Oil 9
STEAD & CO., Photographics .....Col. Supp.
STERNS, Ld., Petroleum Jelly..... 21
STEVENSON & HOWELL, Ld., Soluble and Fruit Essences, Essential Oils, Synthetic Perfumes..... 1
STIPENDUM STOPPER CO., Boxes, Stoppers 8
SWISS BANK CORPORATION., Banking, &c. xvii
SYMPHELITE CO., Cooking Stoves, &c. xviii
TAYLOR, EDWARD, Ld., Waterproof Plaster xxii
THAMES CHEMICAL CO., Ld., Wrinkle Remover xx
THEW, HOOKER & GILBEY, Malted Food 14
THORNLEY, S., Ld., Methylated Spirit 16
TIMPSON, JOHN, & CO., Ld., Surgical Dressings xxvi
TOLKOWSKY, S., Russian Crude Drugs, &c. viii
TOMPKINS, J., Ld., Rubber Goods..... xx
TOOGOOD, W., Ld., Druggists' Sundries..... 21
TOPLIS & HARDING, Auctioneers, &c.....Col. Supp.
TOWNSEND & SON, Printing 6
TURNER, W., & CO., Surgical Instruments xxi
UEYAMAYEI INSECTICIDE PRODUCING CO..... xix
VAN HORN & SAWTELL, Surgical Ligatures xx
VISCOSE CO., Ld., Bottle Cappings 18
WARD & GOLDSTONE, Electrical Novelties..... 29
WARRINGTON CHEMICAL & DRUG CO., Salicylic Acid xvii
WASHINGTON CHEMICAL CO., Ld., Magnesia & Salts iv
WATSON & CO., Photographics .....Col. Supp.
WENGERS, Ld., Potters' Chemicals..... iv
WEST-END PHARMACY SUPPLY, Cachets, Capsules xx
WESTMINSTER COLLEGE OF PHARMACY 28
WHIFFEN & SONS, Ld., Emetine Salts, Quinine, &c... i, iv
WHITE BAND MNFG. CO., Ld., Tooth Powder 19
WILKINSON, J. F., Chemists' Printing..... xxi
WILLIAMS BROS. & CO., Aniline Dyes 15
WILLSON, ASTELL J., Agencies..... xx
WORCESTER ROYAL PORCELAIN WORKS, Crucibles, &c. 29

LONDON CHEMICAL WORKS, LTD.

1917

The Year of Victory

Copenhagen:
Jan. 18th/17.

"The firm to whom we sold your Salicylic Acid find it perfect and prefer it to the German. They very much regret they have big stocks of the latter, but when buying again they will certainly not go to Germany for it."

SALICYLIC ACID
SODIUM SALICYLATE

Manufactured at

Telegrams: "CHEMICAL."

SOUTHALL, MIDDLESEX.

Telephone 56.

QUININE

MAARSSEN

QUININE and QUININE SALTS.

Fully answering requirements of B.P. and other Pharmacopœias, Unexcelled in Uniformity of Quality, Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE, and their SALTS.

Manufactured by

NEDERLANDSCHE KININEFABRIEK, MAARSSEN, HOLLAND

Agents.— R. W. Greeff and Company, Thames House, Queen Street Place, LONDON, E.C.4.

TOWNSEND'S

COCAINE & OPIUM REGISTERS.

Post free, 3/3 for the two.

JAMES TOWNSEND & SONS,
Label Printers,
EXETER & LONDON.

MECHANICAL DENTISTRY

Freeman Bros.

WITHAM - HULL.

'Phone—CENTRAL 1290.

High-Class Work at Moderate Prices

Reliable Staff under Personal Supervision.
Punctuality Guaranteed, & Best Materials.

BRIDGE BRAND

PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

R. W. GREEFF & CO. offer at lowest prices the following products manufactured in the United Kingdom, Allied and Neutral Countries

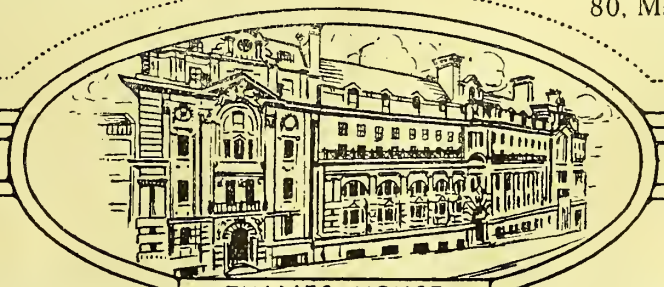
(WHOLESALE QUANTITIES ONLY)

Acetanilid
Acetyl Salicylic Acid
Amidopyrin
Barbitone
Benzoic Acid
Benzoate of Soda
Benzamine Hydrochlor
Beta Naphthol
Bromide of Ammonium
Bromide of Potassium
Bromide of Sodium
Chloral Hydrate
Cinchonine and Salts
Cinchonidine and Salts
Citric Acid
Cocain Hydrochlor and Puriss
Cream of Tartar
Creosote Carbonate
Formaldehyde
Gallic Acid
Guaiacol Carbonate
Heliotropin
Hexamine
Homatropine
Hydroquinone
Isarol (best Ichthyol substitute)
Lithia Carbonate
Lithol (Ichthyol substitute)
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
Peppermint Oil
Phenacetin
Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
Quinidine and Salts
Quinine and Salts
Quinine Ethyl Carbonate
Salicylic Acid
Salicylate of Soda
Salol
Sugar of Milk
Tannic Acid
Tannin Albuminate
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals
Vanillin

R. W. Greeff & Co. THAMES HOUSE, QUEEN ST. PLACE, LONDON, E.C.

MANCHESTER BRANCH:
Lloyds Bank Buildings,
King Street.

NEW YORK AGENTS:
R. W. Greeff & Co.,
80, Maiden Lane.


THAMES HOUSE.

EVERY 3 DOZEN ORDER

"PERRO"
NAIL STONE

CARRIES BONUS OF 1/2 DOZEN

"PERRO" IN PRE-WAR DAYS HAD AN ENORMOUS SALE, BUILT ON MERIT ALONE.

Which is a pretty good proposition. You'll admit that the way "Perro" puts a shine on nails is nothing less than wonderful. This shine does not come off even after washing the hands frequently. Indeed, it does for 7½d. what a manicurist would charge 10/6.

* * * * * * * * *

That's why it sells continually. Then it is put up in gold blocked leatherette blue cases and packed one dozen in little easel-backed show boxes just ideal for the counter, whilst the rate of profit makes it (like its sister line "Zepto") more than just worth while.

"PERRO" ALWAYS DEFEATED THE FOREIGN-MADE POLISHES AND NOW HOLDS THE FIELD. ALL BRITISH.

7½d. EACH. P.A.T.A. MIN'M.

TRY OUR "PERRO" NOW IN YOUR DISTRICT
CHRISTY'S
Old Swan Lane, London, E.C. 4.

YIELDS WITHOUT BONUS 66⅔%

GIGNOUX FRÈRES & CO.
Manufacturers of Pharmaceutical Preparations.
Works at DECINES, near LYONS (France)
OFFER
EXTRACT OF MALE FERN
Ethereal
guaranteed pure 24/25% Filicine.
Solid Extracts of KOLA, COCA, CINCHONA, GENTIAN, etc.; all pharmaceutical extracts.
HYDROGEN PEROXIDE, chemically pure.
ETHER, 0.720—ANÆSTHETIC ETHER—ABSOLUTE ALCOHOL.
COLLODIONS of all kinds.
SPECIALITIES:
GELLOPLASTRE: an adhesive surgical and industrial tissue.
GELLO. Pure Alcoholic products in jelly form put up in tubes:—
GELLO-COLOGNE GELLO-LAVANDE
GELLO-MENTHE GELLO-CAMPHRE
GELLO-FIORAVANTI.
METALLINE: a liquid metallic solution for capsuling bottles and vials.
London Agent: R. Ansay, 44 Wilson St., Finsbury, E.C.
Telephone: London Wall 3103.
WE SOLICIT OFFERS
For all kinds of Medicinal Plants and Herbs.

1917

We can deliver at once New 1917

HIGHEST QUALITY NORWEGIAN MEDICINAL NON-FREEZING

COD LIVER OIL

PROMPT DELIVERY

LOWEST PRICES

ISAAC SPENCER & CO. (ABERDEEN) LTD. ABERDEEN

ALEXOL

THE STRAW HAT CLEANER

SUPERIOR TO, AND REPLACING THE GERMAN-MADE **STROBIN.**

ALEXOL

is made by Belgian Refugees in England under the supervision of a Belgian Pharmacist.

IT IS THE FINEST STRAW CLEANER IN EXISTENCE.

Retails **3d.** per packet.

Price to the Trade ... **25/-** per gross.
5-gross lots ... ... **24/-** „

Carriage paid on 1-gross lots and upwards.

SOLE SELLING AGENTS:

BROOK, PARKER & CO., Ltd.

NELSON ST., BRADFORD.

WE MAKE GLASS BOTTLES

ESTABLISHED 1880.

All Kinds, Shapes and Colours, Plain, Screw-capped & Stoppered

FORSYTH & BATE

TRADING AS

A. RUCH & CO., Ltd.

(G. GRANT FORSYTH, Managing Director)

Offices: 28 Martin's Lane, Cannon Street, LONDON, E.C.

Phone: Central 4799. Telegrams: "Sennook, Cannon, London."

LARGE STOCKS AT OUR WAREHOUSES

Limes, Kalis, Flats (plain and panelled), Tablets, Pomades, Brilliantines, Colognes, Medicals, Poisons, Essences, &c. &c.

16,000,000 people

1 in every 3 in your town

will see the big

DAISY TABLETS Advertisements

AMONG thousands of busy workers there is a definite need for a quick, safe and certain cure for head and nerve pains in a handy, no-trouble form, and as Daisy Tablets exactly fill this need the sales are growing to huge proportions.

But it is our intention that ten tins shall be sold this Autumn for each one sold before, and as the surest means of ensuring this we have arranged for the

BIGGEST —— ADVERTISING —— SCHEME

yet put out for a headache cure, to commence on October 21, with a full-page, followed by other large spaces, in the "Sunday Pictorial" (seen by 10,000,000 people), several large spaces in the "Illustrated Sunday Herald" (seen by 4,000,000 people) and in the "Daily Mail." These three papers constitute the most powerful advertising media in Great Britain, and the big advertisements we are inserting in these and a dozen other great journals, making an appeal to practically the whole of the population of the United Kingdom, will, without doubt, send dozens of buyers to your store.

By displaying the advertisement we are sending you, you link up your store with our advertising, and get some of the results of our expenditure into your till.

As part of our advertising scheme, and to make it easy and profitable for you to stock Daisy Tablets in readiness for the demand that is so surely coming, we are for 14 days—until the 15th October—making a

GENEROUS BONUS OFFER

of 20 % discount on the usual wholesale prices on all orders of ½ to 3 dozen tins—which will give you a profit of from 45 to 50 % on your outlay—on condition that you will for 14 days display one of our showcards and exhibit the "Sunday Pictorial" advertisement.

Make out and send in your order now. Post up the "Sunday Pictorial" page in your window as part of your window display, and you will soon want to re-order. The merit of the Tablets and the subsequent advertising ensure that.

All orders will be executed in strict rotation. Remember the special bonus offer is for 3 more days only, so get off your order to-night. Monday the 15th, up to 6 o'clock post, is the last day.

Post your BONUS ORDER To-night.

DAISY LTD. LEEDS.

October 15 is . . . the LAST DAY.

Telephone: CITY 7 PRIVATE BRANCH EXCHANGE

Telegrams: ELEVEN CENT LONDON

S·MAW·SON & SONS LTD
7/12 ALDERSGATE STREET
LONDON
ENGLAND

Cables: ELEVEN LONDON

Code: A:B:C 4th & 5th EDITION

Maw's Page.

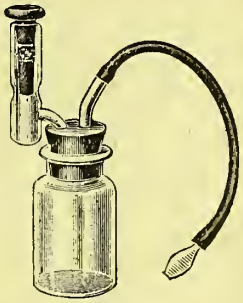
NUMBER 313. OCTOBER 13, 1917.

AN OPPORTUNE SELECTION

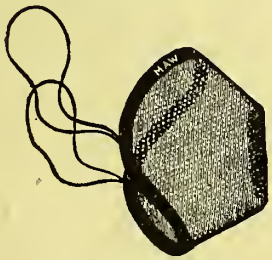
INHALERS AND RESPIRATORS.

2146/S
EARTHENWARE
(Marbled), 3 sizes.
24/9, 30/6, 43/6 per Doz.

2148/S
EARTHENWARE
(Portable), White.
12/- per Doz.

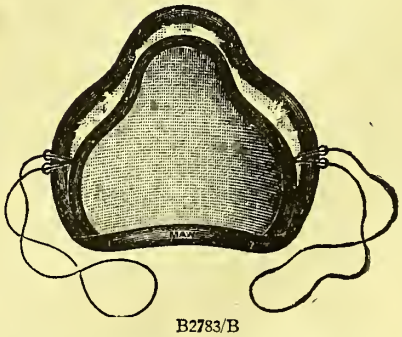


2150/S
CHLORIDE OF AMMONIUM.
60/- per Doz.



B2773/B
BURNEY YEO'S PERFORATED ZINC.
For use with Antiseptic Solutions.
Plain ... 5/- & 9/- Doz.
Covered ... 9/- Doz.

B1808/F
MAW'S MENTHOL INHALER.
Filled with Menthol Crystals ready for use.
Price 5/9 per Doz.
A Display Card supplied with 1 dozen.



B2783/B
TYNDAL'S "COTTON WOOL"
for Mouth and Nose.
60/- ... per Doz.

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m. CLOSE AT 1 p.m. SATURDAYS.

ROBINSON'S GROATS.

In consequence of questions recently raised in certain districts in reference to the sale of ROBINSON'S GROATS and the effect of the Food Controller's orders on such sale, the Proprietors have pleasure in informing the trade that sale is authorised by Licence, subject to consumption being restricted as far as practicable to Invalids and Children, and to the retail price not exceeding 1/- per lb.

J. & J. COLMAN, Ltd.,
108 Cannon Street, E.C. 4.

LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

(Hewlett's)

Price 11/- per lb. Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."
The Practitioner.

VIROPHOS

TRADE MARK

Of proved utility in Nervous Diseases, and a Powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value, enhanced by the presence of assimilable phosphates."—*The Lancet.*

Wholesale Prices:

No. 1.	1½ oz. Tin ...	9/-	per doz.
" 2.	3½ " " ...	14/6	"
" 3.	6½ " " ...	24/-	"
" 4.	13 " " ...	42/-	"

Introduced and prepared only by

MIST. PEPSINÆ CO. c. BISMUTHO

(Hewlett's)

Price 11/- per lb. Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."
British Medical Journal.

C. J. HEWLETT & SON, Ld., Wholesale Druggists, 35-42 Charlotte St., LONDON, E.C. 2.

THE MOST ECONOMICAL INFANTS' FOOD.

ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.

The Improved Casein-Glycerophosphate Food

'Bynogen'

Trade Mark

Brings Health

An Easily Digested Nerve Food Rich in Phosphorus

Composition of "Bynogen."

"Bynogen" is a combination of pure Milk Protein, 75 per cent., and specially prepared Dextrin-Maltose, 20 per cent., with 2 per cent. each of the Glycerophosphates of Soda and Lime, and 1 per cent. of Glycerophosphate of Magnesia.

Uses of "Bynogen."

"Bynogen" is indicated in all Enfeebled Conditions, in Convalescence after Severe Illness, Mental and Nervous Exhaustion due to worry or overwork, Insomnia, Physical Fatigue, Wasting Diseases, Anæmia, Digestive Troubles, etc.

"Bynogen" is very helpful to Nursing Mothers for overcoming the strain caused by breast feeding.

Minimum Retail Prices: 1/9 and 3/- per bottle.

Gross Wholesale Prices: 17/- and 29/- per doz. bottles respectively.

A Concentrated Nutrient and Restorative

Advantages of "Bynogen."

"Bynogen" possesses a most attractive flavour and thereby overcomes the objection hitherto experienced in other somewhat similar products.

"Bynogen" strengthens digestion, improves nutrition, and does not cause constipation.

"Bynogen" is delicious when sprinkled on puddings, toast, etc. It mixes readily with milk and other fluids, or it may be eaten plain if desired.

Profit on "Bynogen."

"Bynogen" yields a profit on return of 25% monthly a/c terms. When "Bynogen" forms part of a £5 carriage paid general order for the "Allenburys" Specialities the profit on "Bynogen" is increased to 27½%

SAMPLES AND DESCRIPTIVE LEAFLETS FREE ON REQUEST

Allen & Hanburys Ltd. Lombard St., E.C. 3.

ASPIRIN ACID
ACETYLSALICYLIC
SUPER P.B. QUALITY.
Free from Acetic or Salicylic Acids. Melting Point 135°.
British Make.
Bulk & Tablets

ARGENTUM NUCLEINATE
1 oz. & 1 lb. bots.

CALCIUM LACTATE B.P.
ACID MOLYBDIC
AMMON. MOLYBDATE

DIAMIDOPHENOL (AMIDOL)
BISMUTH SALTS
BROMIDES

SILVER PROTEINATE
(Protargol)
P.G.V.
British Make

Cable Address: "Selgog London."
ESTABLISHED 1870.
Telephone: 2215 London Wall.

JOHN LORIMER
BALFOUR HOUSE,
119 Finsbury Pavement, London, E.C.

Drugs and Chemicals for all Markets.
Inquiries invited from Wholesale and Manufacturing Trades.

STYPTIC PENCILS
Stop flow of blood at once.
SURGICAL FORCEPS.
MANICURE FLEXIBLE FILES,
RUBBER GOODS
Etc. Etc.

VITAGEN
Pure Milk Casein with 5 per cent. Sodium Glycerophosphate.
THE IDEAL TONIC and NERVE FOOD.

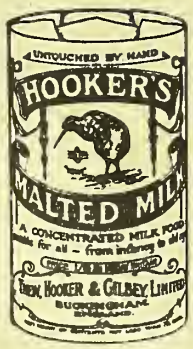
SANATOGEN
With 100 per cent. profit.
"SANATOGEN" is no longer a registered trade mark, but has been wisely dedicated to the public, and can be used by anyone. No human being or company can acquire a monopoly in it.
I manufacture according to Wulfing's expired patent a very fine All-British product fully equal to the origin in all respects and more pala table, ready packed to sell at 100 % profit.

NARGENTOL
Contains 24% Silver with Protein obtained from Wheat. The most important and satisfactory of all Silver Salts.
In 1 oz. & ½ oz. bottles.

ADEPS LANÆ,
B.P.
(Lanoline)
Anhydrous and Hydrous.

HOOKER'S MALTED MILK
"A complete food." — *Lancet.*

SELLS ENTIRELY ON MERIT.



There is no Higher Quality or Better Value

BRITISH MADE & BRITISH OWNED

DEMAND RAPIDLY INCREASING.

LARGE PROFITS TO SELLERS.

PRICES AND TERMS FROM

THEW, HOOKER & GILBEY, LTD., BUCKINGHAM.

FINEST **BLACKS** AND

COLOURS

(ALL SHADES)

for

CONFECTIONERY
(Harmless)
MINERAL WATERS
(Acid-proof)
GELATINE
LEATHER
SOAP
VARNISH
BOOT POLISH
WRITING INK
ENDORSING INK
RULING INK
STENCIL INK
PRINTING INK
WOOD STAINS
SIZE
COTTON
WOOL
SILK
COIR YARN
JUTE
&c. &c.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE

and

IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and Preservative for Wood.

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS
in 1/- Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.
Newcastle-on-Tyne and Cardiff.

METHYLATED SPIRIT

OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.
Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, Ltd., BIRMINGHAM

PETROLEUM JELLY

Finest qualities, Red, Yellow, and White. Guaranteed B.P.

GUMS. WAXES. DEXTRINE.
CRUDE DRUGS.

W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.

Telegrams: "KIDSTONISM, BILGATE, LONDON." Telephone: AVENUE 8057.

LABORATORY OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.
LONDON AGENTS:
WILCOX, JOZEAU & CO., 49, Haymarket, S.W.

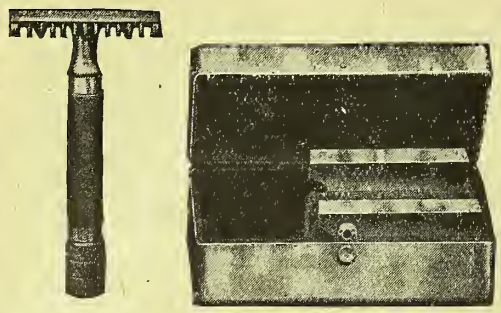
CHAPOTEAUT'S CAPSULES of PHOSPHOGLYCERATE of LIME.
THE BEST TONIC FOR FORTIFYING AND BUILDING UP THE NERVOUS SYSTEM.
Sold by all Chemists.
Wholesale: 8, Rue Vivienne, PARIS

MORRHUOL CHAPOTEAUT

CAPSULES
MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.
It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.
SOLD BY ALL DRUGGISTS.

CHANDRON'S DROPS
(Gouttes des Colonies)
A harmless antiseptic preventative against CHOLERA FERMENTATION - INDIGESTION & other intestinal disturbances.
SOLD BY ALL CHEMISTS

LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.



SAFETY RAZORS

British Made.

Numerous patterns, suitable for all markets.
English or Foreign catalogues on application.
We are the largest makers in Great Britain.

ROWLAND HODGES Ltd., Birmingham, Eng.

ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.
Quick Seller. Big Profits. Over 40 Years' Reputation.
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3.
Wholesale Prices on application. Sample Box 1/3.
D. M'CLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.

Viuda de José Solernou

Disputacion 64, Barcelona, Spain.
Agency & Representative House. Established in 1875.
Member of The British Chamber of Commerce at Barcelona.
AGENCIES WANTED FOR GOOD-CLASS CHEMICAL AND PHARMACEUTICAL SPECIALITIES.

OVER 100 % PROFIT ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/8 size to 4/6, 12/- and 27/- respectively.

Sole Proprietors—
C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E. 1.

TINFOIL

PURE TIN (Free from Lead).
All Thicknesses, Sizes, Shapes, and Designs for the Wrapping of

DRUGS, CHEMICALS,
PLASTERS, BANDAGES,
AND SANITARY APPLIANCES.
BOTTLING FOILS.
SHAVING SOAPS FOILS
(Designed and Perforated).
TOILET SOAPS FOILS,
AND FOILS FOR COMPRESSED
TABLETS OF FOODSTUFFS,
DRUGS, PILLS, LOZENGES, &c.
CHOCOLATE (Embossed or Printed).
Also in REELS for WRAPPING MACHINES
and
LEAD & COMPOSITION FOILS
for special Chemical Wrapping.

H. ERHARDT & CO. Ltd.
9 & 10 Bond Court, Walbrook,
LONDON, E.C.
Established 1870. Telephones 383 and 384 City.
Telegrams: "ERHARDT LONDON."

THE PREDOMINATING LINE of 6d. Tooth Paste is

Get up—Attractive!
Quality—Magnificent!
Sales —Immediate!

Send a card for Bonus Offer No. 7—

¼ gross Zoka 6d. size at **3/8**
2 dozen „ 1/- „ „ **6/10**
Receiving 12 6d. Tubes Free, and showing

100 % PROFIT.

Sample and other Bonus Offers of Tooth Pastes, Oxygen Tooth Powders, Carbolic Tooth Powders, Lanoline, Cold Cream, Smokers' Tooth Paste and Powder, Chilblain Ointment, &c., from

WHITE BAND MFG. CO., LTD., PROGRESS WORKS, SOUTH CROYDON.

Think what this means for you—

the leading papers throughout the Kingdom are urging the Public to go to you for

TATCHO

As expected, the demand for Tatcho goes up by leaps and bounds.

It needed but an impressive reminder to recall to the British public the long-known and well-tried virtues of Mr. Geo. R. Sims' Hair Renewer, and

THE SPECIAL OFFER OF
A 4/6 BOTTLE FOR 2/9

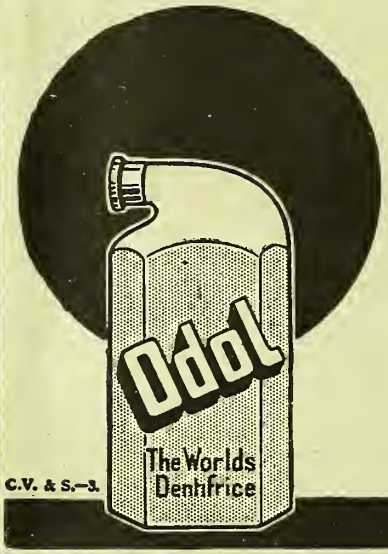
(*allowing you a bigger profit than ever*) is meeting with an instant response throughout the country.

Are *you* well-stocked? And are you backing up the big Press campaign with a timely display of Tatcho?

Lose no time in ordering through your wholesaler now.

GEO. R. SIMS HAIR RESTORER CO.,
5, Great Queen St., Kingsway, London, W.C.2.

BRITISH NOW



Send for Price List and Trading Terms.

ODOL
Chemical Works,
BERKHAMSTED.

C.V. & S.—3.

BEETHAM'S
"LAROLA"
(Registered)

Is the Skin Tonic for 1917.

It is effective.
It is attractive.
It is price-protected.
It is well-advertised.
It sells readily.
It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

Beetham's New Showcard.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, CHELTENHAM.

Prompt delivery from stock

Without Certificate

STERNS LTD., *Royal London House,* FINSBURY SQ., LONDON, E.C. 2.

TOOGOOD'S SHAMPOO POWDERS

EGYPTIAN HENNA SHAMPOO POWDER.

In boxes containing 7 Powders. Superior Quality and Delicately Perfumed, 10/6 per dozen boxes.

PINE, 7/6 doz.

PINE & HENNA, 8/9 doz.

PINE.

In Envelopes, 7 in box, 7/6 per dozen boxes.

PINE & HENNA.

In Envelopes, 7 in box, 8/9 per dozen boxes.

Customer's name free on 3 dozen boxes or bottles.

MANUFACTURED ONLY BY—

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E. 1.

GUARANTEED SACCHARINE TABLETS

The difficulty of making minute chemical analysis of SACCHARINE Tablets has paved the way for unreliable products, which are being offered freely. To safeguard the trade we sell on the following conditions:

We will pay the cost of analysis wherever it is shown by recognised analysts that our tablets are not as guaranteed.

OUR GUARANTEE.

We guarantee that every ½-grain tablet contains not less than ¼ grain SACCHARINE, testing *over* 330, and the excipient contains only traces of Soda Bicarb., just sufficient to quicken solubility.

We further guarantee our tablets to be as sweet as the pre-war standard.

All tablets sold under this guarantee or returnable.

Bottles of 100 (½-gr.) tablets	...	22/-	per dozen
,, 200 ,, ,,	...	42/6	,,
,, 500 ,, ,,	...	98/-	,,
,, 1,000 ,, ,,	...	185/-	,,

Post-paid. Special quotations for quantities. Samples upon request.

The KEENE CO.,
50 Gray's Inn Rd., London, W.C.1

Contractors to His Majesty's War, India and Munition Departments. Contractors to the Allied Governments' Military Hospitals. Members of American Chamber of Commerce in London.

"FLYBANE" W.D.O.

For industrial purposes.

"VERMIJELLI LIQUID"

For manure heaps. Kills maggots before the flies come into existence.

"GARDEN WASH"

A simple wash for growing plants.

Manufactured by **S. BOWLEY & SON**
Wellington Works, Battersea Bridge, S.W. 11.

Chlorate of Potash
Chlorate of Soda
Chlorate of Baryum
Perchlorate of Potash
Perchlorate of Ammonia

Selling Agents: CHAS. MANGOLD & CO., LONDON
9 MINCING LANE.
SOCIÉTÉ D'ELECTRO-CHIMIE, PARIS,
2 RUE BLANCHE.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
* ,, ,, ,, ,, ,,	1/2	10/-
* ,, ,, ,, ,, bottles in cartons	1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema } 13/6 per dozen boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

For FOUNTAIN PENS and all Pens the Best.

Dichroic Ink

Makes Writing Easy

Proprietors:
Bewley & Draper, Ltd., Dublin.

HAVE YOU AN EYE FOR BUSINESS

MITCHELLS' PYRAMID CORKS
TRADE MARK

The name "PYRAMID"

was instituted to demonstrate to the world beyond question the dominating and outstanding qualities of "Mitchell's Corks." Nothing unworthy carries the name.

Business men obtain their Corks from a Cork firm. Discriminating Chemists get "Pyramid" Corks. Have you an eye for business? if so, you will want to be a "Pyramid" user. Try some of these:—

6 and 8 oz. Corks, 1" long.

N. I. quality	5½d. per gross	10/- worth delivered free British Isles.
Spanish, 2nd quality...	7½d. "	
" 1st " ...	8½d. "	
G. A. O. quality ...	11d. "	
Spanish, super ...	1/2 "	
S. C. E. quality ...	1/6 "	

Plus 15% advance.

Less 5% on 20 gross bags of one line.
2½% prompt cash discount on £1 and over.

N. W. MITCHELL & SONS, Ltd.
The Cork Firm,
Limehouse, London, E. 14.

THE "RODINE" ADVANCE

A Tommy in France writes: "Your 'Rodine' simply cleaned out our old billet, but we have moved further up the line into a new billet, which is swarming. Please send another tin."

Later . . . "Your 'Rodine' has done absolute wonders, beating all records, and has completely cleared our billets. Since using 'Rodine' we have not had a single rat in the billet, which I think is very marvellous."

Original testimonials at works.

Sole Maker—
HARLEY, Manufacturing Chemist.
PERTH, Scotland.

Export Agents—
Tozer, Kemsley & Millbourn, Ltd.,
84 Fenchurch Street, London, E.C.

NO ADVANCE IN PRICES

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.
12 ounce.
WHITE PHIALS, plain or teaspoons.
½ ounce. 1½ ounce.
1 " 2 "
BLUE LOTION BOTTLES, all sizes.
Lowest Market Prices Charged.

CORKS. Superior Quality. No advance in price.
¾ and 8 ounce ... ... 1s. per gross, in 6 gross bags.
Vials ... ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W. 1,
or ISLINGTON BOTTLE COMPANY,
7 New Inn Yard, Tottenham Court Road, London, W. 1.
Orders sent to either establishment have attention.
Established 100 Years.
Bankers: London County and Westminster Bank, Bloomsbury Branch.

R. GRAESSER, Ltd.

ESTABLISHED 1867. **RUABON** Telephone: No. 3 RUABON. Private Bch. Exge.

Manufacturers of

CARBOLIC ACID CRYSTALS, 40° C.
DETACHED CARBOLIC CRYSTALS, 40/42°C.
(absolute Phenol)
All qualities of CRESYLIC ACID, etc.
ORTHO, META, and PARA CRESOLS, etc.
GLAUBER SALTS, B.P., and COMMERCIAL
LYSOL SUBSTITUTE "ACROSYL"

CONTRACTORS to the BRITISH and other Governments.

Telegraphic Address. "CRESSWELL, WESTCENT, LONDON." **WORLD'S HEADQUARTERS FOR** Telephone: No. 1432 HOLBORN.

SPONGES

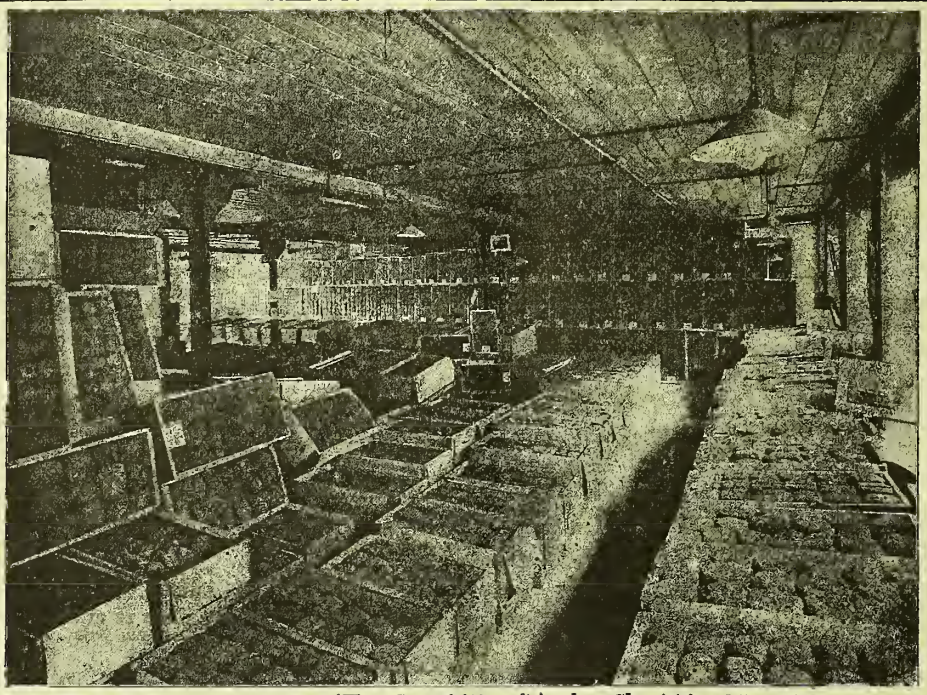
INTERNATIONAL SPONGE IMPORTERS, LIMITED.

CRESSWELL BROTHERS

Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers, [BRANCH,

18 & 19 RED LION SQUARE, New Warehouses and Steam Bleacheries, 45½ EAGLE STREET. **LONDON, W.C.**

Largest Sponge Warehouses in the World.



Our Stocks and Selections are Unrivalled in Value and Extent.

View of Mediterranean Case Goods Department (Floor Space 3,000 sq. ft.) where Chemists' and Druggists' Sponges are shown.

Buyers are invited to call to Inspect our Magnificent Stocks and make their own Selections. Lowest Market Prices. Absolutely Best Values. The following abridged List will serve as a guide to Buyers when writing.

UNBLEACHED MEDITERRANEAN SPONGES in Original Cases.

HONEYCOMB.

Extra Choice. The Pick of all the Fisheries. FINESTTEXTURE and SHAPE.

Pieces in Case.		Average Price per Piece.
300	Toilet at	9d.
250	,, ,,	1/-
200	,, ,,	1/6
160	,, ,,	2/-
140	,, ,,	2/6
120	,, ,,	3/-
100	,, ,,	3/6
90	Medium Bath	4/6
80	,, ,,	5/6
72	,, ,,	6/6
60	,, ,,	7/6
45	Large Bath	8/6
30	,, ,,	10/6

HONEYCOMB.

Toilet & Bath Good 2nd Quality.

Pieces in Case.		Av'ge Price per Piece.
300	at	4d.
270	,,	6d.
180	,,	9d.
170	,,	1/-
160	,,	1/6
140	,,	2/-
120	,,	2/6
110	,,	3/-
90	,,	3/6
80	,,	4/-
75	,,	4/6
70	,,	5/-
65	,,	5/6
60	,,	6/6

FINE TURKEY CUPS

1st Quality. PICKED SHAPES.

Pieces in Case.		Average Price per Piece.
Toilet Selected	300 at	1/-
,,	200 ,,	1/6
,,	150 ,,	2/-
,,	140 ,,	2/6
,,	100 ,,	3/-
,,	90 ,,	3/6
,,	80 ,,	4/-
,,	70 ,,	4/6
,,	60 ,,	5/-
,,	50 ,,	6/-
Bath Selected	45 ,,	6/6
	40 ,,	7/6

FINE TURKEY SOLIDS.

SELECTED SHAPES. 1st Quality

Pieces in Case.		Average Price per Piece.
Nursery	200 at	6d.
,,	200 ,,	8d.
,,	200 ,,	1/-
Toilet	150 ,,	1/3
,,	100 ,,	1/9
,,	100 ,,	2/-
,,	80 ,,	2/6
Bath	50 ,,	3/-
,,	36 ,,	4/-
,,	24 ,,	5/-

IMPORTANT NOTICE. THE CONTENTS OF THE ABOVE CASES WILL BE PRESS-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST.

LOOSE GOODS DEPARTMENT Sponges in Small Packages. Fine Turkey. Fine Egyptian and Honeycomb. In 1st, 2nd and 3rd Qualities. Bleached or Unbleached (state which in ordering). On Strings of 1 dozen pieces or loose in bags. At per dozen: 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool, Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.

RUBBER SPONGES.—THE BEST QUALITY AND VALUE ON THE MARKET.

"ABLUTONIC" Brand ...	XL	A	B	C	D	E	F	G	H	
	6/6	11/6	13/6	18/6	24/-	31/-	41/-	60/-	72/- dozen.	SUBJECT TO MARKET FLUCTUATIONS.

STOVAINE

THE LEAST TOXIC OF LOCAL ANÆSTHETICS

USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches, nausea, vertigo or syncope. :: :: *Literature on demand.*

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly in practically unlimited quantities from the manufacturers:

LES ETABLISSEMENTS POULENC FRERES

92, RUE VIEILLE DU TEMPLE, PARIS.

Packed in beautifully labelled silent salesman outers, with striking showcard.

The EMPIRE PERFUMERY CO.

(Cuxson, Gerrard & Co., Ltd., Proprietors)

OLDBURY.

Private Brands made for the Trade.

A solid, impalpable Face Powder, exquisitely perfumed, in pocket case with puff complete. Made in Rouge, Brunette, and all shades for day and night use.

Retails 1/- per box.

Wholesale 4/6 per doz.

With mirror in lid, 5/6 per doz.

POUDRE IMPERIA
COMPACTE

Lescol Floral Perfumes

NOTICE!

WE strongly advise Chemists, before purchasing their Christmas lines, to send us particulars of their requirements, and complete Price List will be sent, or one of our representatives will call with full set of samples when in their vicinity.

WE ARE HOLDING A LARGE STOCK AT REMUNERATIVE PRICES.

Bulk Perfumes, Quadruple, Triple Extra, and Triple Strengths.
Double-Distilled Eau de Cologne & Lavender Water in 2 qualities.

Brilliantines, Separable and Clear.
Hair Lotions, in all Odours.
Dentifrice, Powder and Paste, &c., &c.
Essential Oils, B.P., and of finest quality.
(Eucalyptus, Lavender, Sassafras, genuine and artificial, Wintergreen, genuine and artificial, Lemon, Lime, Orange, &c.)

Liquid Paraffin, B.P., Medicinal.

THE LESCOL PERFUMERY CO.
(*Proprietors: The London Essence Co.*),
Lomond Grove, Camberwell, London, S.E. 5.
Telegrams—"VANILLIN, Camber, London." Telephone No.—810 HOP.

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

"Prana" Sparklets.

NOTICE TO THE TRADE.

MESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the "Prana" Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

AERATORS LTD.,
"Prana" Sparklet Works,
Upper Edmonton, N.

LIQUID GLUCOSE

SO_2 Free.

NO BLUEING USED.

Specially pure for Pharmaceutical Preparations.

THE MANBRÉ SACCHARINE Co., Ltd.,

HAMMERSMITH, LONDON, W. 6.

"Indispensable."

THE EXTRA PHARMACOPŒIA NOW READY.

By MARTINDALE & WESTCOTT.

SIXTEENTH EDITION (1915). REVISED AND ENLARGED.

PRICE 21s. net; postage 5d., abroad 6d.
Separately, Vol. I., 14s. net; postage 5d. Vol. II., 7s. net; postage 3d.

"It is a book that is indispensable to the modern pharmacist, and in this case an old edition is not 'just as good.'"—*Chemist and Druggist.*

"The two volumes together form an invaluable compendium of information."

"A work of great utility."—*The Lancet.* [*British Medical Journal.*

"The Extra Pharmacopœia maintains its high standard and more. All interested will welcome this new edition of an indispensable book."—*Pharmaceutical Journal.*

LONDON: H. K. LEWIS & CO. LTD., 136 GOWER ST., LONDON, W.C.

Also of W. MARTINDALE, 10 NEW CAVENDISH STREET, LONDON, W.

WESTMINSTER COLLEGE.

Principals: G. S. V. WILLS, Ph.C. (Founder); P. H. WOODNOTH, M.P.S PHONE: BRIXTON 1728.

Minor Half Term, NOVEMBER 14, for JANUARY Examination. Fee, £5:5:0

Evening Class for Minor and Apothecaries' Hall every Wednesday, 6—8 p.m.
Fee, £1:1:0—3 months.

Full Course for Apothecaries' Hall Exam. October 31. Fee, £8:8:0

JUST PUBLISHED: WILLS' VOLUMETRIC ANALYSIS of B.P. 1914. 3/6 Post Free.

For Prospectus, &c., Call, Write or Phone THE PRINCIPALS, 190 Clapham Rd., LONDON, S.W.9.

J. BARCHAM GREEN & SON,
Hayle Mill - Maidstone, Kent.

Makers of Filter Papers to replace the German Nos. 595, 597, 598, 602, 604, etc.

also

Soxhlet Thimbles,
Drying Trays,
Drop Reaction Papers,
Filter Pulp, etc.

Samples and Price Lists can be obtained from the principal Laboratory Furnishers.

PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

The College of Preceptors holds Preliminary Examinations in March, June, September, and December. All the Examinations are held in London, Aberdeen, Birmingham, Blackburn, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, and Nottingham. For the June and December Examinations there are other Centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Croydon, Exeter, Margate, Plymouth, Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.

DIABETES

CHELTINE FOODS CO., CHELTENHAM.
FLOUR, BISCUITS, BREAD, FOOD, Etc.
Highly Recommended by Medical Profession.
INFANTS' FOODS packed under Chemists' "OWN NAMES."
All particulars on request.

Mustard?

—Yes! Rigollot's Mustard Leaves for Plasters. The original and only genuine.

OF ALL CHEMISTS AND STORES IN
6d. & 1/- Packets and 1/6 Tins.

67 Southwark Bridge, London, S.E.

TRADE MARK. "ROYAL WORCESTER" TRADE MARK.

IMPROVED

LABORATORY PORCELAIN

IN STANDARD FORMS & SIZES.

THE WORCESTER ROYAL PORCELAIN Co., Ltd., WORCESTER, ENGLAND.

AYRTON-GRAHAM, Ltd.

DESIGNERS AND ACTUAL MANUFACTURERS OF

FITTINGS FOR THE MODERN PHARMACY.

SHOP FRONTS, SHOWCASES, EXHIBITION CASES, WINDOW FITTINGS, &c. &c.

All goods of best quality and finish at lowest rates. Inquiries invited.

106 Duke Street, LIVERPOOL.

CLINICAL THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.

40 DIFFERENT KINDS.

Special Quotations to Wholesale Buyers

THE "MATER"

LENS FRONT (Regd.)

CLINICAL THERMOMETER.

P.A.T.A.

MERCURY COLUMN SEEN AT A GLANCE.

Made in Two Rapidities, 1 Minute and ½ Minute.

New Price List of Thermometers for every purpose, post free.

PERKEN, SON & CO. LTD.

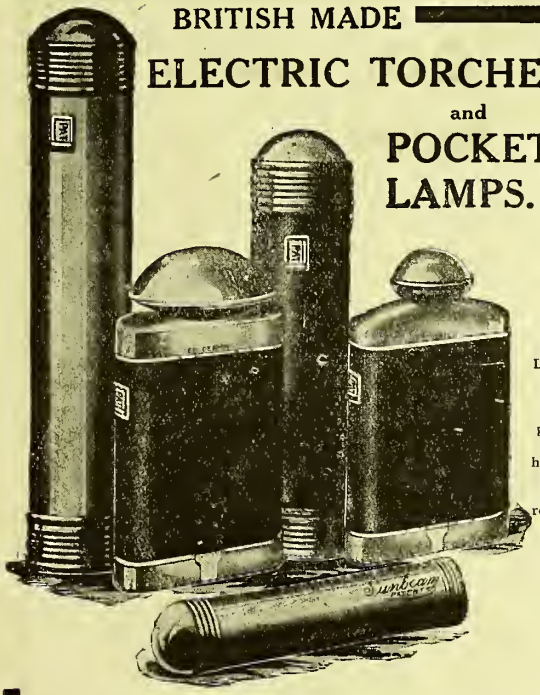
ESTABLISHED 1852.

Contractors to H.M. Government.

99 Hatton Garden, LONDON.

BRITISH MADE

ELECTRIC TORCHES and POCKET LAMPS.



Our British Made Torches and Pocket Lamps are designed on practical principles. They are handsome, effective, and at reasonable prices.

New Season's List on request.

HIGH-GRADE

BRITISH MADE REFILLS and BATTERIES.

The celebrated "Volex" Refills and Batteries are made in all standard sizes. They have a pronounced superiority over other makes and give maximum results.

Highly Recommended for Home and Export.

WE CAN PROMPTLY SUPPLY ELECTRO-MEDICAL APPLIANCES SUCH AS MEDICAL COILS, MAGNETOS, VIBRATORS, HOT AND COLD AIR DOUCHES, ETC. FOR PARTICULARS SEE OUR "N" LIST.

Ward & Goldstone SALFORD MANCHESTER

Profits For You

That's what you're in business for. Handle the line of Toilet Preparations which sells quickest and at the largest margin of profit.

INGRAM'S OFFER.

½ Doz. Milkweed Cream	Retails for 2/- each	(2.00)	8/-
½ Doz. Velveola Souveraine (Face Powder)	,, ,, 2/- ,,	(2.00)	8/-
½ Doz. Zodenta Paste	,, ,, 1/- ,,	(1.00)	4/-
¼ Doz. Rouge.,, ...	,, ,, 2/- ,,	(1.00)	4/-
½ Doz. Perfume, 1 oz. ass't. in fancy packages	,, ,, 4/ ,,	(4.00)	16/-
		10,00	£2

Delivered prepaid Parcel Post. We will send advertising matter and samples packed with the goods.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, asking them to call at your store and get free our Guest Room Package, containing one each of the above in sample sizes, including perfume.

If more convenient to you, specify shipments from our Canadian Branch.

FREDERICK F. INGRAM CO.

(ESTABLISHED 1885)

411 Lafayette Blvd. W., DETROIT, U.S.A

Canadian Branch : WINDSOR, ONT.

Twenty-five years continuous advertising has made this trade-mark known wherever American and Canadian publications are read.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu.

TONKA BEANS, Angosturas.

'Phone: CITY 2468.

Telegrams: "EGDARF, FEN, LONDON."

DECOLTENE The liquid hair remover

Dinkie The Dainty Deodorant

The intelligent depilatory. Simple, safe and effective. Pleasant and harmless. Invaluable during the décolleté vogue. Daintily packed.

An attractive line that enjoys good sales. A greaseless Cream, that takes the odour out of perspiration. Daintily packed in opal jars.

Ask your wholesaler. Both articles largely advertised.

SATISFACTION GUARANTEED OR MONEY BACK.

TRADE TERMS.

DECOLTENE. Advertised and min. Retail price 3/9
Trade 30/- per doz.

DINKIE. Advertised and min. Retail price 2/6
Trade 20/- per doz.

5% cash with order. Carriage paid on £1 lots. Particulars on request.

ROBARTES, LTD., 128 JERMYN STREET, LONDON, S.W.1

Telephone - - Gerrard 3672.

THE BRYTSTELE OUTFIT

For Safety Razors

Safety Razors kept in a Brytstele Bath do not require to be taken apart for cleaning or drying. Brytstele Solution keeps blades sharp for at least two months without stropping. Blades and Holders are kept bright, antiseptic, and free from rust.

ATTRACTIVE OUTFITS

AS ILLUSTRATED.

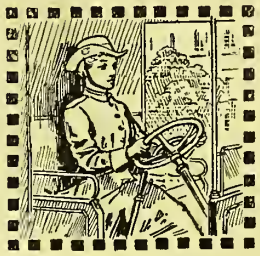
Retail 2s. 6d. each ... Trade 22/- doz.
Refill Bottles (4 oz.)
1s. each ... ... ,, 9/- ,,
Refill Bottles (10 oz.) ,, 17/- ,,
Carriage paid, England, 20/- & upwards.
,, ,, Scotland & Ireland, 40/- ,,

Good Showcards, etc.

THE BRYTSTELE Mfg. Co., 106 High Street, Camden Town, N.W.

IN THE WORKSHOP

National Service for



ON THE AMBULANCE

'Hazeline' Cream

(Trade Mark)

It is to your advantage to see that every tube and pot of 'Hazeline' Cream in your stock is employed in protecting the hands and complexions of the nation's women war-workers.

You will quickly accomplish this and need further supplies if you give prominence to the product.

The demand is enormous. Habitual users are constantly recommending it to friends, and so the business increases.

A share of it is yours. Why let it go elsewhere?

'Hazeline' Cream is supplied in tubes of two sizes at 6/0 and 10/0 per dozen respectively, also in glass pots at 11/0 per dozen. Prices subject.

ON THE ALLOTMENT

BURROUGHS WELLCOME & CO.
LONDON

NEW YORK MONTREAL
SYDNEY CAPE TOWN
MILAN SHANGHAI
BUENOS AIRES BOMBAY

IN THE HOME

G 805

COPYRIGHT

COD LIVER OIL EMULSION.

CUPAL, LTD., is becoming more and more as the years go by the Headquarters for **EMULSION.**

Several of our representatives are now serving in the Forces. We shall much esteem your inquiries and orders direct : same will have our prompt attention.

CUPAL, LTD., BLACKBURN.

'HOLADIN'

An Extract of the Entire Pancreas Gland.

'**Holadin**' presents all the constituents of the pancreas gland, both of the digestive and of the internal secretion. '**Holadin,**' whilst possessing great tryptic activity, is of special potency in respect to the amylolytic and lipolytic enzymes : it is rich in the important cell-constituents, lecithin and nuclein, which peculiarly abound in the pancreas.

The usual dose is one capsule about three hours after meals, and one at bedtime. In cases of constitutional disease or in serious disorders of digestion attributed to faulty pancreatic functioning the dose may be gradually increased to two or three capsules at a time.

'**Holadin,**' by the U. S. P. method of assay, exhibits at least four times the starch-converting power of 'Pancreatin' U.S.P., 1900.

Put up in 3 gr. gelatin capsules, and supplied to the Medical Profession in bottles containing 25 and 100.

'HOLADIN' & BILE SALTS

'Holadin,' 2½ grs. Bile Salts, ½ gr.

The **Bile Salts** are the taurocholate and the glycocholate of soda, as isolated in their natural association from fresh, purified ox-gall.

The usual dose of '**Holadin**' and **Bile Salts** is one capsule, generally advised to be taken from three and one-half to four hours after a meal, or at bedtime.

Supplied in bottles containing 100.

Originated and Manufactured by
FAIRCHILD BROS. & FOSTER,
NEW YORK.

Agents for Europe, Asia, Africa, and Australasia:
BURROUGHS WELLCOME & CO.,
LONDON, SYDNEY, CAPE TOWN.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

SUBSCRIPTION RATES.
Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6*d.*; Summer or Winter Number, 1*s.*; *Diary* 3*s.* 6*d.* Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12*s.* 6*d.*, franco.

Подписная цѣна на еженедѣльный журналъ съ приложеніемъ Годового Дневника—12 шиллинговъ 6 пенсовъ на годъ съ пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C. 4.
Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 41 (Series No. 1968), Vol. 89.

	PAGE		PAGE
Births	40	German News	38
British Pharmaceutical Conference	38	Humour from Cholera	*Col. Supp.*
Colonial and Foreign News	38	Information Department	42
Coming Events	33	Insurance Act Dispensing	46
Company News	39	Irish News	36
Correspondence:		Legal Reports	39
Letters	50	Marriage	40
Subscribers' Symposium	51	Military Tribunals' Decisions	34
Legal Queries	51	Minor Experiences	*Col. Supp.*
Miscellaneous Inquiries	52	Observations and Reflections	43
Deaths	40	Personalities	41
Deed of Arrangement	39	Poisonings	36
Drug Tariff (Scotland)	47	Retrospect	52
Editorial Articles:		Scientific Progress	42
Australian Trade	44	Scottish News	36
Methylated-spirit Supply	45	South African News	37
Exports to Neutrals	45	Things Worth Knowing	*Col. Supp.*
Doing without Germany: VIII.—The Necessity	45	Trade-marks	41
English News	34	Trade Notes	42
European War	33	Trade Report	48
French News	37	Winter Session	46

Coming Events.

Monday, October 15.

Liverpool Pharmacists' Corps, West Lancashire V.A.D., Royal Institution, Colquitt Street, at 9 P.M. Dr. Murray Cairns on "Some War Injuries," illustrated by *x*-ray photographs. Ladies are invited.

Wednesday, October 17.

Royal Microscopical Society, 20 Hanover Square, London, W., at 8 P.M. Ordinary meeting.

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, at 8.30 P.M. Address by Mr. J. Batey on "Education."

Lanarkshire Pharmacists' Association, Rooms of the Glasgow and West of Scotland Chemists' Association, Hill Street, Garnet Hill, Glasgow, at 3.30 P.M. Mr. W. L. Currie on "Current Topics of Pharmaceutical Interest."

Thursday, October 18.

Western Pharmacists' Association, Restaurant Frascati, Oxford Street, London, W., at 3 P.M. Mr. E. T. Neathercoat, Vice-President of the Pharmaceutical Society, on "Pharmaceutical Politics."

West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists, Progressive Pharmacists' Club, Arundel Hotel, Arundel Street, London, W.C., at 3 P.M. Mr. Herbert Skinner on "Micro-biology."

North London Pharmacists' Association.—The meeting announced to be held on October 11 has been postponed to October 25.

European War News.

Import and Export Notices.

France.—The following is a list of goods in the French tariff, which, if originating in the United Kingdom, can only be licensed by the "Comité des Dérogations, 6 Rue Saint-Romain, Paris," and *which are subject to a ration*: Animal fats other than fish; tallow, lard, and others; currier's grease (dégras); spermaceti; fixed puro vegetable oils; oleic and stearic acid and deglycerinated oils; perfumed soaps; other soaps; candles of paraffin and others; candles of tallow and others.

Japan.—Copra and coconut oil have been placed on the list of prohibited exports from Japan. Licences, however, may be granted by the Department of Agriculture and Commerce.

Netherlands.—The exportation of gelatin has been prohibited as from September 25.—According to a royal decree of August 30, the exportation of beechnut oil, dyes of any kind, and tobacco in any form is prohibited.

Sweden.—Essential vegetable oils "not specially mentioned" have been placed on the list of prohibited exports and also in transit through Sweden.

United Kingdom.—A memorandum has been issued by the War Trade Department for the information of holders of licences, in the course of which it is stated that if for any reason the licence is not used or is only partly used, it *must* be returned to the War Trade Department, together with a statement showing the quantity, net weight, and value of the goods, if any, which have been exported. It must be borne in mind that extensions of licences cannot be granted as a matter of course. Licences for transmission by post must not be used for ordinary shipments, nor must a shipping licence be used for exports by post. A licence must not under any circumstances be altered by the holder, and any infringement of this rule renders the offender liable to prosecution.

Personalia.

Sergeant Peter Irvine, R.A.M.C., pharmaceutical chemist, late of Glasgow, is home on leave from the Western Front.

Private F. McKell, West Yorkshire Regiment, who enlisted from the staff of Taylor's Drug Co., Ltd., Bradford, has been wounded in action.

Captain Robert Wilson, Royal Garrison Artillery, a nephew of Mr. G. Victor Wright, chemist and druggist, Edinburgh, has been wounded.

Sergeant Peter Tufnbull, Royal Field Artillery, once a member of the laboratory staff of Raimes, Clark & Co., Ltd., has been awarded the D.C.M.

Gunner Fred Keen, Royal Garrison Artillery, who has been wounded in action, was prior to enlistment with Mr. J. A. Dale, chemist and druggist, Stoke-on-Trent.

Lieutenant A. C. Jardine, Yorkshire Regiment, has been wounded a second time. The lieutenant is a nephew of Mr. T. Jardine (T. & H. Smith, Ltd., Edinburgh).

Second-Lieutenant Eric E. Wood, who has been gazetted to the Yorkshire Regiment, enlisted last year from the pharmacy of Mr. J. S. Craven, chemist and druggist, Cleckheaton.

Second-Lieutenant Leslie F. Last, who has recently been gazetted to the Royal Field Artillery, was in pre-war days a member of the staff of the Indo-Burma Co., Ltd., Wool Exchange, London, E.C.

Private Harold Vernon, who is on active service in France, has been awarded the Military Medal for heroism in the field. He is the elder son of Mr. W. H. Vernon, Ph.C., Anerley, London, S.E.

Major J. H. B. Wigginton has recently returned to the Front. Major Wigginton, who has been on active service for about three years, is a pharmacist and brother of Mr. J. Wigginton (Arthur H. Cox & Co., Ltd., Brighton).

Staff-Sergeant S. P. Clark, R.A.M.C., Brisbane, Queensland, is in this country. He is a chemist, and enlisted soon after the outbreak of war. Up to the middle of this year he was engaged at a base hospital in Queensland, when an opportunity occurred of entering for service in Europe.

Private Harry Sutherland, Highland Light Infantry, who has been awarded the Military Medal, is officially reported missing. Private Sutherland is the eldest son of the late Mr. Robert Sutherland, and, prior to enlistment, represented the firm in which his father was a partner (Munro, McLaren & Sutherland, druggists' sundriesmen, Glasgow).

Second-Lieutenant R. G. Garrod, who has recently been gazetted, is under orders to proceed abroad. On the outbreak of war he was serving his apprenticeship with Mr. J. A. Symonds, chemist and druggist, Upper Brook Street, Ipswich, and after enlistment spent two winters in the trenches, during which time he had the experience of being carried off as dead.

Miscellaneous.

Lignum Vitæ.—The Board of Trade have decided that no person shall sell or purchase lignum vitæ in the United Kingdom, except under licence or permit issued by or on their behalf. Purchases or sales not exceeding 50*l.* per calendar month are exempt.

Petroleum Control.—Mr. Walter Long, M.P., has been requested by the War Cabinet to take control of all questions affecting petroleum and petroleum products. Mr. Long has appointed Professor Cadman, C.M.G., Petroleum Adviser to the Colonial Office and Professor of Mining of the University of Birmingham, to be his technical adviser and liaison officer between the various Government Departments. Professor Cadman will assume the title of Director of the Petroleum Executive. The headquarters of the Petroleum Executive are at 8 Northumberland Avenue, W.C. 2.—A strong appeal for rigid economy in the use of petrol and other petroleum products, coupled with an intimation that further restrictions on the use of petrol are impending, is issued. Professor Cadman indicates that there is a very serious shortage, and that although steps are being taken to supplement the supplies, it is the duty of every citizen of the State to economise to the last drop.

Military Tribunals' Decisions.

Since our Last Issue the following decisions have been notified:

Bath.—An appeal by the military authority against the exemption of Mr. Walter Benjamin Lloyd, Ph.C., manager for Davies & John, chemists, Bath, was dismissed on the ground that it should not have been lodged pending the report of the Insurance Commissioners as to Mr. Lloyd's indispensability. The case had been submitted to the Commissioners, under the regulations, in consequence of a disagreement between the Military Representative and the Joint Insurance and Chemists' Committee.

Bermondsey.—The Tribunal has obtained official sanction to send a deputation to the Badges and Protected Trades Occupation Section of the Ministry of Munitions with reference to the granting of protection certificates (see *C. & D.*, September 15, p. 34).

Colchester.—At the adjourned appeal by the military authority in the case of Mr. F. W. Last (see *C. & D.*, October 6, p. 34), three months' exemption was granted with a view to substitution.

Eastbourne.—Mr. Thomas L. Pride, assistant with the Lion Drug Stores, Ltd., was granted renewed exemption for two months with a view to substitution.

Falmouth.—Exemption was refused to Mr. Richard Stanley Hoare, assistant with Mr. W. E. Pilgrim, chemist and druggist, Market Street, who, in applying on Mr. Hoare's behalf, stated that deprived of his services he would be obliged to drop National Insurance dispensing.

Huddersfield.—A herbalist's assistant was granted three months' temporary exemption, and another, who also gives electric treatment, was allowed six months' exemption.

Lyme.—Mr. G. H. Holmes, drysalter, High Street, who stated that he had been unable to find anyone to manage his business, was granted three months' exemption.

Morecambe.—Mr. W. P. Knowles, assistant with Mr. Robert Knowles, chemist and druggist, and Mr. N. M. Lund, assistant with Mr. F. N. Whitehead, Ph.C., were granted exemption till March 31.

Redhill.—Three months' temporary exemption was granted to Mr. H. Hooker, chemist and druggist, Station Road.

Rochester.—Three months' exemption has been granted to Mr. H. B. Burr, dispenser with Ostler & Co., chemists.

Stratford-on-Avon.—The application of the military authority for the removal of Mr. J. L. Miller, assistant with Mr. F. D. Spencer, pharmacist, High Street, from the certified occupations list was adjourned for a fortnight so that a medical examination may be made.

Windsor.—With the assent of the military authority, three months' exemption was granted to Mr. J. Hewitt, chemist and druggist, High Street.

Worcester.—Exemption was continued to Mr. William McCallum, chemist and druggist, branch manager for George & Welch, London Road, until a substitute is obtained.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Birmingham Minimum Prices.

An October price-list issued by the Minimum Prices Committee of the Birmingham Pharmaceutical Association contains the following alterations among others:

Drugs and Dressings.

	1 oz.	2 oz.	4 oz.	1 lb.
	d.	*d.*	*s. d.*	*s. d.*
Acetic acid	2	3½	0 6½	1 8
Boric acid	1½	2½	0 4	1 3
Boric lint (cartons) ...	5	5½	0 10½	3 0
Camphorated oil	2½	5	0 9	2 10
Castile soap	1½	3	0 5	1 6
Cotton-wool	3	6	0 10½	3 0
,, ,, (hospital qual.)	—	—	—	2 6
Cream of tartar	3	—	0 11½	3 6
Gall ointment	4	—	1 2	—
Gall and opium ointment	8	—	2 3	—
Honey	2	3½	0 6	1 6
Lint (cartons)	4	7½	1 2	4 4
Liquorice, stick	4	7½	1 2	—
Olive oil	2½	5	0 9	2 10
Soft soap	2	4	0 7	2 0
Sugar of milk	2½	4½	0 8	2 8
Sulphur ointment	2½	—	0 8	—
Zinc ointment	2½	—	0 8	—

Packed Goods and Proprietaries.

Astol, 2*s.* 10*d.*, 4*s.* 8*d.*
Dean's Pills, kidney, 2*s.* 5*d.*; dinner, 1*s.* 2*d.*
Edward's Harlene, 1*s.*, 2*s.* 5*d.*, 4*s.*
Liquirata, 1*s.* 2½*d.*, 2*s.* 11*d.*, 4*s.* 10*d.*
Malt Extract, 1-lb., 1*s.* 1½*d.*; 2-lb., 2*s.*; 4-lb., 4*s.*
Malt Extract with Cod-liver Oil, 1-lb., 1*s.* 4*s.*; 2-lb., 2*s.* 6*d.*; 4-lb., 4*s.* 10*d.*
Pepper's Sulpholine Lotion, 1*s.* 2*d.*, 2*s.* 9*d.*
Pond's Extract, 1*s.* 2*d.*, 2*s.* 4*d.*, 4*s.* 6*d.*
Price's Child's Night-lights, 8*d.* per box.
Quinine-wine, 1*s.* 10*d.* per bottle.
Rimmel's Oatmeal or Violet Powder, 10*d.*, 1*s.* 8*d.*
Rowland's Macassar Oil, 2*s.* 6*d.*, 4*s.* 11*d.*
Williams' Pink Pills, 2*s.* 5*d.*

Contracts.

The following tenders have been accepted by the Boards of Guardians or other public bodies named:

Alresford.—Trimming & Co., Ltd., chemists, High Street, Alton, drugs and medical requisites.

Brentford.—McDougall Bros., Ltd., and the "Sanitas" Co., Ltd., disinfectants; Oxo, Ltd., meat extract.

Chelsea Hospital for Women.—Burgoyne, Burbidges & Co., Ltd., surgical dressings; Camwal, Ltd., mineral waters.

Faversham.—Mr. J. T. T. Rolfe, chemist and druggist, Market Place, drugs, etc.

Faversham Rural Council.—Mr. T. J. Thomas, chemist and druggist, Market Place, drugs, etc.

Hereford City Council.—Mr. W. S. Marchant, chemist and druggist, drugs to the local hospital for six months.

Isle of Wight.—A. Millidge & Son, chemists, Newport, drugs.

Louth.—G. Cheetham, Ltd., chemists, Eastgate, drugs.

Nantwich.—Mr. W. C. Grice, chemist and druggist, High Street, and Russell & Andress, chemists, Crewe, drugs, etc.

Southampton.—Idris & Co., soda-water; McDougall Bros., Ltd., toilet-soap.

Sudbury.—Mr. W. S. H. Brampton, chemist and druggist, Market Hill, drugs.

Thrapston.—Sturton & Sons, Ltd., chemists, Peterborough, drugs.

Todmorden.—Mr. E. Crabtree, chemist and druggist, Water Street, drugs, etc.

Progressive Pharmacy Club.

The opening of the Progressive Pharmacy Club took place on October 10. The Club, which has rooms at the Arundel Hotel, Victoria Embankment, London, W.C., has been available for members for some time, but no official opening had been arranged. The club-room presented a very cosy appearance on Wednesday night: it was well lighted and warmed, the tables were decorated with autumn flowers and foliage—the Ladies' Committee had seen to this—and lounge-chairs comfortably cushioned invited the members and visitors to rest and unbend in conversation. It was a ladies' evening, and many had responded to the invitation. Mr. Herbert Skinner received the visitors, and later on in the evening an adjournment was made to the drawing-room, where an excellent musical programme had been arranged by Mr. Mumford and Mr. Evans. Refreshments were served, and Mr. Skinner took the opportunity of explaining the objects of the Club—not anarchical by any means, notwithstanding the whisperings that emanate from Bloomsbury.

Birmingham.

The local Pharmaceutical Council has issued the annual statement to its members and the voting-papers for electing officers for the ensuing year.

A home for the treatment of rheumatism has been opened at Droitwich, under the ægis of the Birmingham Hospital Saturday Fund, at a cost of 13,000*l.*

Owing to the generation of heat by a heap of lime, a serious fire occurred at the Lifford Chemical-works; the second floor and its contents were severely damaged.

The production of honey in Staffordshire, already considerable, will be stimulated by the recent appointment of an expert to establish a central apiary and otherwise develop the industry.

Under the auspices of the B.C.(V.)F.A. a course of Tuesday lectures on bacteriology is to be given by Mr. O. T. Elliott, F.R.M.S., commencing on October 16, at 8.30 P.M., at Bristol Street Schools (Upper Rooms).

A well-known pharmacist tried his hand this year at potato-growing to the extent of fifty 16-ft. rows. The last plant in the last row produced exactly one specimen of the tuber of *Solanum tuberosum*, and it weighed exactly gr. ij. *Verb. sap.*

Bradford.

The Bradford Education Committee has accepted the tender of Harrison, Parkinson & Co., Bradford, for the supply of chemicals and apparatus.

Through a confidence trick new to this locality a Bradford shopkeeper has lost 60*l.* A man who entered the shop announced himself as a detective from Huddersfield, and by a plausible story about counterfeit coins, etc., induced the lady to hand him the shop cash for examination. Taking possession of this, he informed her that it was a serious matter, and that she must accompany him to Huddersfield. Placing her in the train, he left the carriage on some pretext and disappeared. On comparing the description of the man in this case with one issued officially, it appears possible that a second trickster is at work.

Liverpool.

Now that supplies of S.V.M. are lacking customers have a disconcerting way of asking for one or two quarts to be sent in place of the usual pint.

Under the auspices of the St. John Ambulance Brigade (Pharmacists' Division), a course of ten lectures on first-aid and ambulance work will be given by Dr. Murray Cairns on Monday evenings at 9.15, commencing on October 22, at the Royal Institution. Chemists and assistants are invited to send for particulars from the Hon. Secretary, Mr. A. W. Ashcroft, 112 Aigburth Road, Liverpool.

The Liverpool Medical Officer of Health (Dr. E. W. Hope) has sent to city pharmacists a circular as follows: "In conformity with the wish of the Council of the Liverpool Chemists' Association, I have pleasure in enclosing for your information a list showing the hours of attendance at the Venereal Diseases Clinical Centres, at which special facilities for diagnosis, as well as treatment, exist. It is considered desirable that this time-table should be available in case inquiries are made." The time-table refers to several central medical charities, at each of which specialists may be consulted.

Manchester.

The recent cold snap gave a filip to retail business. Many windows are displaying malt-and-oil at prices varying, apparently, according to the locality.

The eldest son of Mr. J. H. Nidd, chemist and druggist, Rochdale Road, has passed from a successful career at the Manchester Grammar School to the Manchester University.

The Food Economy campaign has, incidentally, been responsible for increasing the sales of articles used in preserving fruit—*e.g.*, salicylic acid and paraffin wax. One pharmacist is showing a goodly pile of 4-oz. blocks of the latter, with a card of directions for its use in sealing the bottles.

The syllabus of lectures for the Session 1917-18 recently issued by the Manchester Pharmaceutical Association is quite up to the usual standard. An opening address has been given this week by the President of the Pharmaceutical Society of Great Britain, and future fixtures include: A paper entitled "The Relation between Dye Research and Synthetic Drug Production," by Mr. J. Grier, M.Sc., Ph.C., and Mr. Henry Stephen, M.Sc.; a lecture by Mr. E. G. Gaul, M.Sc., Ph.C., on "Bacteriology in its Relation to Pharmacy"; an address by Mr. J. W. Deakin; and a lecture by Mr. W. H. Butchers.

Sheffield.

Panel chemists may congratulate themselves on the agreement to pay their accounts in full.

Many friends of Mr. Thomas Dobb, Ph.C., will learn with great regret of a nervous breakdown, likely to incapacitate him for some time.

Business has taken a marked turn for the better of late, and money appears to be plentiful in some quarters, as witness the increased display of expensive cameras.

The filling up of Sugar Form S13 has presented puzzles for some of our pharmacists. L.G. Sugar Form 5 states that dispensaries and retail chemists do not come within the meaning of the Order.

Corporal R. Blackburn, chemist and druggist, branch-manager for Mr. G. Squire, Ph.C., has been promoted Sergeant-Compounder to a local Defence Corps. Many of the younger pharmacists are devoting their spare time to this work.

Miscellaneous.

Poison-licence.—Mr. Arthur Wiltshire, trading as Morse Bros., nurserymen, etc., East Street, Epsom, has applied to the Surrey County Council for a licence to sell agricultural and horticultural poisons.

Anthrax in a Shaving-brush.—At Jarrow, on October 6, a verdict of "Death from anthrax" was returned in the case of James Forsyth, who cut his face after using a new shaving-brush, and died two days later.

Dentists Act Committee.—The Chemists' Dental Society is collecting evidence from its members regarding the dental work which the members undertake with a view of being able, if called up, to give authentic details to the Dentists Act Committee.

Christmas Holidays.—The question of a closing of retail shops at Christmas was discussed at the last meeting of the Early-closing Association. The Board recommended the adoption of a three days' holiday—namely, Tuesday, Wednesday, Thursday—December 25, 26, and 27.

Income-tax Concession.—The Chancellor of the Exchequer has expressed his willingness to include in his next Budget an abatement of 25*l.* to be allowed in respect of a wife. Like the existing allowance of 25*l.* in respect of each child under sixteen years of age, it is limited to incomes under 700*l.*

Tablet to Roger Bacon.—The Mayor of Oxford, Sir Robert Buckell, on October 10 unveiled a memorial tablet to Roger Bacon. It has been erected on a part of the old city wall of Oxford, close to the site of the Greyfriars Monastery, where Roger Bacon lived, and in the church of which he was probably buried.

Charge of "Doping."—At Hendon, on October 5, Edward Fonseca was remanded in custody on a charge of taking drugs to render himself unfit for military service, contrary to Regulation 40c of the Defence of the Realm Act. It was stated that the accused, as the result of a self-administered prescription, was totally rejected from the Army after examination by five doctors.

College of Ambulance.—At a meeting held to mark the opening of the fourth year's work of the College of Ambulance, Vere Street, London, W., it was stated that over 14,000 students had received instruction, and that the complete courses in first-aid, hygiene, etc., made a total of 1,160 lectures. The College is the cradle of the Friends' Ambulance Unit, an agency that has sent out tons of clothing to France, Belgium, and the Balkans.

Medical War Emergency Fund.—A meeting of this Fund, connected with the Royal Medical Benevolent Fund, was held on October 10 at the rooms of the Medical Society of London, 11 Chandos Street, London, W. The Chairman, Sir A. P. Gould, announced that the amount required was provisionally put at 25,000*l.*, and that some 7,000*l.* had been received. It was resolved not to confine the subscription-list to medical men, but to appeal to the country generally.

Theft by Children.—At a recent Children's Court at Lewes, Annie Clark (twelve) and Kate Ransom (nine) were bound over to be of good behaviour for twelve months for stealing a box of eggs, valued at 2*s.* 6*d.*, from the shop of Mr. J. C. Lloyd, chemist and druggist, High Street. The eggs were the property of Mr. Thomas George Young, chemist and druggist, Mr. Lloyd's assistant, after whose evidence the parents of the children were ordered to pay 10*s.* costs.

Winter Closing-hours.—The Clacton Chamber of Commerce has decided that during the winter months shops shall close at 8 P.M. on Saturdays, 1 P.M. on Wednesdays, and 6 P.M. on other days.—The Halifax Chamber of Trade has recommended local tradesmen to close at 6.30 on Mondays, Tuesdays, and Wednesdays, during the winter.—Aberystwyth business men have decided to close at 7 on Mondays, 6.30 on Tuesdays, Thursdays, and Fridays, 1 on Wednesdays, and 8 on Saturdays.

Control of Hops.—The President of the Board of Agriculture has appointed a Committee to control the hop-industry in the situation created by the reduction of brewing during the war. The Committee will take over all stocks of hops grown in 1914 or thereafter, except stocks in the hands of brewers, and will retain control until normal conditions of brewing are resumed. No trading in hops is allowed except through the Committee or its agents. The Secretary is Mr. R. Wynne, 42 Borough High Street, London, S.E. 1, and the Controller is Mr. G. Foster Clark, of Maidstone.

Commercial Libraries.—Speaking at the annual meeting of the Library Association at Caxton Hall, Westminster, Mr. W. H. Saunders, President of the Liverpool Library, and chairman of Ayrton, Saunders & Co., Ltd., urged the importance of establishing commercial libraries in all the great trade centres of the country, so as to afford facilities for business men to consult Government and other publications relating to commerce. Such libraries, he maintained, should not be dwarfed by being made mere appendages to existing libraries, but should be housed in commodious and centrally situated buildings, in which could be grouped, under the direction of men of wide commercial experience, all the activities of the business world.

Poisonings.—The following cases have been reported during the past week: At an inquest at Stoke Newington, London, N., on John Frederick Howard, employed as a painter by a firm of brewers, a medical witness stated that he had to examine 6,300 men annually, and that the Home Office had decided to receive "blue line" reports only when other symptoms made it necessary. In the present case death occurred in twenty-four hours—the most rapid termination he had known.—At Penge, a verdict of "Death from misadventure" was returned in the case of Alice Atkinson, a chemist's assistant, who died under an anæsthetic during a dental operation. The *post-mortem* examination showed an abnormally large thymus gland, the pressure of which in the circumstances would account for death.—Private Gordon Arthur Mills, stationed at Colchester, took aconite in a fit of depression, with fatal results. The Coroner and a medical witness at the inquest agreed that aconite fatalities were very rare.

Chemicals and War.—Outspoken comment was made by Professor W. J. Pope, in an address given in London on October 6, on the attitude of Government Departments to scientific research. Germany, he remarked, prepared for war by building up a huge chemical-trade around the coal-tar industry, in spite of the fact that England at one time possessed the whole of the world's heavy-chemical industry, and that till ten years ago Germany was practically dependent on British firms for crude coal-tar and its simpler first products. Had the Department for Scientific and Industrial Research been established twenty years ago, it would have prevented the horrors of the last three years. Our method, unfortunately, was to appoint someone who knew nothing to supervise someone who did know how to do his work, and even in 1915 the Government had attempted to re-establish the coal-tar industry in this fashion, the result being a farce staged for the amusement of the whole world.

Irish News.

Pharmaceutical Society of Ireland

Our report of the annual meeting held on October 1 is unavoidably delayed owing to the serious illness of the reporter who took shorthand notes of the proceedings.

The following is the pass list of the Preliminary examination held recently: Violet Kathleen Wilson, Longford, passed with honours. The following also passed: Louisa Kathleen Smith, Newry; Wm. Henry Roche, Waterford; Albert Francis Browne, Strabane; Hannah McGrath, Clonmel; James Galashan, Dublin; Alexis Joseph FitzGerald, Thurles; Mary Kate Kirwan, Camp, co. Kerry; Robert Dick, Dromore, co. Down; Alexander Steede, Belfast.

Brevities

The Cork Chemical and Drug Co., Patrick Street, Cork, has obtained the contract for medicines and appliances to the District Lunatic Asylum.

Mr. T. P. Toher, late manager of Graham & Co., Dublin, and of Boyers' Medical Hall, Sligo, has purchased the Sligo Drug Co., Stephen Street, Sligo, which was conducted for a number of years by the late Mr. S. Casey, J.P.

The winter session of the Chemists' and Druggists' Society of Ireland will be opened on October 17, when the members and lady friends will meet in the rooms in Waring Street, Belfast, on the invitation of the President for a social and musical evening.

Scottish News.

The Fraternity of Dyers.

This ancient Linlithgow Society recently held its annual election of officers, when among those chosen were: Mr. W. W. Spence, pharmacist, "Chloroform Pharmacy," Linlithgow, Deacon; Mr. Edward Spence, pharmacist (Robertson & Co., chemists, Circus Place, Edinburgh), Key-keeper; and Dr. Robert C. W. Spence, R.A.M.C., L.R.C.P.E., late of Spence's Drug-stores, Edinburgh, Standard-bearer. The funds of the Society, which has the punning motto, "We dye to live, we live to die," are this year returned at 5,000*l*. Documents in the possession of the Fraternity prove its existence prior to 1670; it was primarily intended solely for those in the dyeing-industry. Entries of disbursements during the early part of the eighteenth century furnish amusing reading, and suggest that members who held office had acquired the art of looking after themselves. Thus, we read that while 6*d*. was bestowed on a poor girl whose leg was cut off, the sum of 6*s*. 6*d*. was passed as expended by a Deacon in collecting a certain rent, and that 1*l*. 10*s*. was disbursed at "Brother Smith's Dirge." It is of interest, in connection with present food problems, to note that in December 1782 the members were summoned to consider "the alarming circumstances of the very high price of oatmeal and the danger of coal scarcity," and that they agreed to expend not more than 25*l*. on providing oatmeal. Thus did Scotland's pioneer Friendly Society foreshadow our Food Committees.

Brevities.

Winter goods have received a spurt from the snowfall and low temperatures of last week.

The Secretary for Scotland has made an Order continuing the early-closing regulation made under the Defence of the Realm Act.

Mr. A. S. Troup, pharmacist, President of the Monifieth Bowling Club, presented the prices at its recent match in aid of the Red Cross funds.

The facilities that large cities afford for the study of bacteriology are the envy of provincial pharmacists, who wistfully ask if it would not be possible to organise correspondence classes for their benefit.

At Dunns Sheriff Court, a fine of 60*3l*. was imposed on John Prentice, corn-merchant, for failing to dip 603 sheep in conformity with the Diseases of Animals Act, and for making a false return that they had been so dipped.

A. Ireland, a light-weight boxer on the staff of Raimes, Clark & Co., Ltd., Edinburgh, who is not yet seventeen years old, is to meet Pat Shevlin at the Glasgow Amateur Athletic Club. His trainer predicts great things for him.

Almost simultaneously with a notice of renewal payment for the S.V.M. licence came the announcement that supplies would be stopped for ordinary purposes. Pharmacists who have already renewed the licence are wondering whether they can have their money refunded.

Dundee.

The lanoline-factory lately occupied by William Swan & Co. (proprietor, Mr. William Swan, Ph.C.) has been leased to Evans Sons Lescher & Webb, Ltd., Liverpool.

Edinburgh.

Medical men have been trying during the last few days to purchase S.V.M. from retailers, possibly on account of its withdrawal from public sale.

Chemists who applied for sugar for manufacturing-purposes are this week receiving cards entitling them to a monthly supply for the next six months.

Sir David McVail, a member of the Glasgow University Court, referred, in a recent speech, to the proposed Edinburgh Commerce degree as a toy, and added, "No business man in the country would give a copper for it." In a subsequent interview, Sir David amplified his statement, and summed the matter up by saying that a degree, to be of any value whatever, would have to be specialised.

Glasgow.

A new children's clinic has been opened by the Duchess of Montrose at the Elder Hospital, Govan.

Professor Charles Latham, Professor of Mining at the University, whose death was recently announced, was an authority on inflammable gases in mine air.

In the annual report of the Chief Inspector of Weights and Measures for the city, it is mentioned that of 119,108 weights examined there were found incorrect 37,140; of 44,458 measures, 877; and of 22,234 weighing-machines, 1,482.

French News.

(From the "C. & D." Paris Correspondent.)

British Perfumed Soap.—The following item, communicated to the Paris Press, shows that the Chemicals Committee—the formation of which we noticed in a recent issue—has commenced operations: "In order to fix the quantity of British perfumed soap to be imported into France, importers are invited to state to the Ministry of Commerce (Chemicals Committee) before October 15 the amount imported by them during 1916."

Our Debt to Science.—The long casualty lists that have filled the columns of newspapers during the present war show us how much of our best blood has been sacrificed to the Cause. But they fail to show one thing which we should never forget in these dark days—that, at least on this our Western Front, we have been spared the terrible epidemics much more fatal to armies in the field than shell or bullet. Professor Richet announced to the Academy of Sciences that typhoid is now practically non-existent in the French Army; the cases are seven times less numerous than in peace-time, the deaths eight and a-half times less numerous.

German Trade-marks.—The General Association of French Pharmacists has issued a circular to medical men regarding the prescribing of medicaments of which the names have been registered by German manufacturing firms as trade-marks. This circular suggests that (1) when the chemical name is currently employed by the profession it should be used—for instance, "carbonate of guaiacol" should be prescribed, not "duotal"; and "arsenobenzol," not "salvarsan." (2) If, on the contrary, the medical man only remembers the registered name of the product, he should add to this the letters "P.F." ("produit français") to indicate he does not wish to prescribe the German article; thus, "Aspirin, P.F."

Oil Stocks.—The "Journal Officiel" (October 1) publishes decree dated September 29 and signed by the President of the Republic and the Ministers of Justice, Commerce, Food-supply, and Munitions, which requires all persons who at midnight on October 10 have in stock over 100 litres of certain oils, or a total stock of over 200 litres, to make formal declaration of the stock in the form of which an example is annexed to the decree. The oils referred to are paraffin of various grades, lubricating, heavy, and waste oils, and vaseline, also schist oils and other derivatives, coal-tar and its distillation-products (benzene, toluene, xylene, and heavy oils), and all liquid combustibles of mineral origin. The declarations must be handed on to the Minister of Commerce before October 25.

Customs Clearances.—The British Chamber of Commerce in Paris has drawn the attention of the Minister of Commerce to the grave delays which are caused in the Customs clearance of goods from Great Britain by the insufficient accommodation at the Saint-Lazare Custom-house; in doing so it has been actuated by the feeling that some change is desirable in the interests of French importers quite as much as in those of their British suppliers. The Chamber has pointed out that plans for enlargement have already been made, and that their execution will confer a tremendous benefit upon the French, American, and British commercial communities, all of whom are interested in the rapid clearance of goods at the Paris Custom-houses, and will be still more so immediately after the war.

A Gallant Mayor.—The conduct of the pharmacist-Mayor of Albert, M. Leturcq, during the occupation of the town by the Germans, was described in the *C. & D.*, March 13, 1915. Since then he has "administrated the town with courage and energy under particularly dangerous conditions," and has recently been awarded the Cross of the Legion of Honour for his public services and the "active and devoted co-operation he has given to the military authorities, etc." Albert is, of course, now in the British Army zone; in fact, it was practically the starting-point of the "great push" of July 1916 on the Somme. Its church, with the Virgin overturned (but not dislodged) from the steeple, was long a target for the Germans. "When we got into their trenches at La Boisselle," a combatant informed me, "we saw that they could see the steeple; the town was hidden by the hill."

Medicine Stamp Act.—It is needless to say that the French Medicine Stamp Act did not come into operation without a few hitches. During the first few days of the application of the Act the supply of stamped labels was insufficient almost everywhere, and the Excise Department had to issue a circular authorising manufacturers, in the districts where these shortages occurred, to use an indiarubber stamp, "Act of Dec. 19, 1916, Tax," etc. But all manufacturers thus stamping goods were to hand in lists of goods stamped to the local Excise Office and to submit their books to the excisemen's inspection for the ready checking of such lists. Some pharmacists objected to being subjected to such visits on account of a shortage for which the authorities, and not themselves, were wholly responsible, and in at least one case a firm stand was made, the pharmacist declaring that the duty of the Excise is to respect and not to modify the law. What is more, this local Hampden seems to have gained his point, and a few days after the discussion he was simply informed that the necessary stamped labels were now at his disposal.

Pharmacy Students.—In a letter addressed to the President of the Republic, the Minister of Public Instruction has drawn attention to the case of pharmaceutical and other students whose courses of study and examinations have been interrupted by their incorporation for several years in the Army. In justice to these young defenders of their country, he pointed out, some dispensation should be accorded, at least for preliminary studies and examinations. Another advantage would be to provide pupils for the eminent professorial staff still available. Men "broken in the wars" and unfit for military service might thus resume the curriculum—not necessarily where they left it—and complete and qualify. It was, however, felt that such dispensation should only be accorded where circumstances warrant it, and the decree signed by the President carries out this idea. Until one year after peace is signed dispensations may be accorded (1) as to the qualifications exacted for admission into Faculties and Superior Schools; (2) as to length of qualifying term of studies to such students as have been handicapped by their call to the Colours. These "dispenses" will be signed by the Minister of Public Instruction only on the recommendation of a special Committee. This body will be composed of members of the Superior Council of Public Instruction and of the Consultative Committee of Public Teaching (Enseignement Public).

The "Closed Door."—Two Parisian pharmacists of good standing were recently convicted of defrauding the French Customs by importing goods duty free by post. Four fines of 20*l.* each were inflicted, and the dignity of the letter of the law was upheld. For the Customs Act of January 11, 1892, prohibits the entry into France of all medicaments not formally and officially approved by the Paris School of Pharmacy, or not figuring in the pages of a foreign Pharmacopœia. It is therefore evident that the Parisian pharmacist whose hotel or other *clientèle* requires British or other proprietaries must, in most cases, break the law to obtain them. In this case the "importations" were Morison's pills, King's pills, capsicum vaseline, and phosferine tablets. The advisability of such prosecutions "at a moment when some three millions of Britons are in France" is, as a French contemporary remarks, at least doubtful. The offence took place in April 1913, and appears to have been proved by the "seizure" of four London invoices. The additional punishment of "imprisonment for three days," also pronounced, was only nominal, the culprits (as might be supposed) benefiting by the First Offender's Act, so far as this detail was concerned. It appears, however, that when the premises of the pharmacists were searched some headache-tablets and diarrhœa-tablets were found, and that these as "secret remedies" are prohibited by Article 32 of the Law of Germinal. A similar fine, etc., was inflicted.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

A Recently Published Act, the "Fertilisers, Farm Foods, Seeds and Pests Remedies Act, 1917," which repeals a similarly named Act of 1907, provides, *inter alia*, that vendors of goods of this class must furnish purchasers with an invoice stating their chemical constituents, which shall include nitrogen, or phosphoric oxide, or potash or lime. Specific directions are given for labelling packages, and all bones imported for manufacturing fertilisers must be accompanied by a certificate of sterilisation.

Drug and Chemical Imports.—During the month ended June 30 the imports of drugs, chemicals, and apothecaries' wares into the Union of South Africa amounted in value to 105,136*l.*, against 128,769*l.* in June 1916. The total imports for the six months ended June 1917 amounted to 463,562*l.*, against 570,871*l.* for the corresponding period of 1916. During June 1917 the imports of apothecaries' wares amounted in value to 7,314*l.*, against 12,479*l.* in June 1916; and medicinal preparations to 15,150*l.*, against 14,066*l.*

Colonial and Foreign News.

Spain is one of the few countries in which French and German advertisements may still be found side by side.

Dr. Bela Szilard, an Hungarian pharmacist, has been appointed Professor of Radiology at the Madrid University.

Spurious Lactic Acid.—In Spain, where lactic acid is in vogue among physicians, pharmacists have been warned that some of the so-called lactic acid on the market is practically a weak solution of citric acid.

Municipal Bacteriology.—Valencia possesses a municipal laboratory that has recently justified its existence by investigating an outbreak of bacterial poisoning, and tracing it to inhabitants of the digestive tract of the lobster.

Medicines for Russia.—The American Red Cross has shipped $160,000 worth of medical and surgical supplies to Russian military hospitals, at the request of Dr. Frank Billings, head of the Red Cross Commission to Russia.

Japanese Chemical Exhibition.—A Chemical Industry Exhibition will be held at Ueno Park, Tokyo, from September 20 till November 18, 1917. The object of the Exhibition is to indicate the progress of the chemical-industry in Japan.

Altruism in Excelsis.—An Association of pharmaceutical manufacturers at Cordova asks its members to think more of the benefits their various preparations are calculated to bestow on the purchasers than of the profits likely to accrue from the sales.

"The Holy Crown of Milan."—The municipal pharmacy has made its appearance in Italy, and to a first example has been given the high-sounding name of "The Holy Crown of Milan." It enters into direct competition with established pharmacists (see *C. & D.*, June 30, p. 37).

Cobalt Oxide, large quantities of which are used for colouring glass bangles in India, was, prior to the war, bought by Germany from Canada and re-exported to India at a comfortable profit, the Indian consumer believing that his cobalt was mined in Germany. He now gets his supplies from Canada *viâ* the United Kingdom.

Impure Chemicals.—The glucose recommended in Italy as a sweetening agent is often found to contain sulphurous anhydride, and sometimes in as high a proportion as 0.35 per 1,000 parts. Perborate of soda is frequently deficient in available oxygen, and has, on testing, revealed the presence of arsenic, lead, and other impurities.

Dutch Central Export Bureau.—The Dutch Government has passed a measure for the establishment of a central export organisation, to be known as the Dutch Export Company (Nederlandsche Uitvoer Maatschappij), through which all export licences will be granted in future. The Netherlands Overseas Trust will work in conjunction with the new company.

Alcohol from Cellulose Lye.—"Verdens Gang" reports from Skien, Norway, that the Union Co.'s new spirit-factory is now almost completed, and is expected to be opened by the New Year. The annual production is expected to be 900,000 litres of spirit, the raw material for which will be furnished from the refuse lye from the cellulose-factories.

Embargo on Collapsible Tubes.—The Austrian Minister for the Home Department has recently issued a decree pointing out that collapsible tubes are being used which contain more lead than the quantity sanctioned by the Codex Alimentarius Austriacus—namely, 1 per cent. For tooth-pastes and similar toilet-articles he recommends glass or earthenware containers.

Treasure Trove.—A few weeks since, several wagons loaded with drugs were discovered at Karlstadt, Croatia, where, it is supposed, they had been sent on the outbreak of war by a Vienna firm to escape commandeering. The comprehensive stock includes senna, quillaia-bark, menthol, anise oil, and many other things equally scarce at present in Austria, the estimated value of the find being 1,500,000kr.

High Treason Charge.—Since November 1916 the widow and daughters of a Croatian pharmacist named Benko have been in prison on a charge of decorating their house when the Serbian army entered Semlin. The defence was that the ladies were compelled by Serbian officers to make the display in question; they have, however, been judged guilty of high treason, and condemned to lose their family "nobility." The widow has, in addition, been sentenced to thirteen years' imprisonment and each of her daughters to eight years' imprisonment, with a monthly fasting day in each case.

German News.

Medicinal Plants.—Books, pamphlets, and lectures on the cultivation of medicinal plants are being published in large numbers, and calendars are issued giving the special period for gathering. Bilberries, the price of which has advanced, are in demand as an ingredient in red wine. The War Department uses great quantities of willows, and urges the collection of ergot, stramonium, belladonna, and hyoscyamus.

Pharmacy Troubles.—The "Pharm. Zeitung" enumerates the war measures that affect the pharmaceutical profession more or less. In the first place, a list is given of the articles which have been commandeered. This list includes: Rubber; aluminium in all forms; calcium carbide; various chemical substances—namely, toluol, nitrites and nitrates of sodium, potassium, calcium, ammonium, barium, and strontium; nitric acid in any concentration; Japanese camphor in any form; glycerin in a concentration of 20 per cent. and more; sulphur and pyrites, sulphurous acid, sulphuric acid, etc.; chlorine in any form; solutions of hypochlorites; chlorates or perchlorates of potassium, sodium, ammonium, barium; cocoa in any form; oil of theobroma; cork and cork-preparations; copper, also in apparatus for distillation, extraction, etc., when the total weight surpasses 150 kilos.; other metals in quantities that exceed those mentioned in parentheses: copper (150 kilos.), nickel (20 kilos.), tin (100 kilos.), aluminium (50 kilos.), antimony (50 kilos.), lead (600 kilos.); fixed oils and fats; platinum (in any form); lubricants, such as mineral oils, vaseline, paraffin, etc. Some of the articles mentioned are distributed to pharmacists in limited quantities. For all these articles and for the following a special form of book-keeping is obligatory: Spirit (only as far as large quantities of spirituous preparations for wholesale trade are concerned), salvarsan and neosalvarsan, quinine and quinine salts, potassium and sodium bromide, morphine and morphine salts, codeine and codeine salts, cocaine and cocaine salts, Peru balsam, acetylsalicylic acid, pyramidon, opium, and soaps in any form. Maximum prices have been fixed for fruit wine, benzine, benzol and solvent naphtha, lead, resin, oak-bark, oatmeal and similar food-preparations, honey, potassium salts, metals (copper, brass, aluminium, nickel, antimony, tin, crude antimony), petroleum, sulphuric acid, soap and soap-powder, soda, spirit, saccharin, wound-dressing material, fat-free washing-preparations, zinc, and zinc alloys. Many articles in stock in quantities which surpass a certain minimum must be entered with the authorities. The importation of many articles is prohibited, just as the exportation and transit of many others. The Hageda has been charged with the distribution of the following articles: Borax and boric acid, chlorine, glycerin, Japanese camphor, potato-flour, fixed oils and fats, saltpetre, and sulphur.

British Pharmaceutical Conference.

A Meeting of the Executive Committee was held at 16 Bloomsbury Square, London, W.C., on October 3, the President (Mr. C. A. Hill) in the chair. There were also present Messrs. F. Ransom and Edmund White (Vice-Presidents), Messrs. H. Deane, F. W. Gamble, C. H. Hampshire, A. R. Melhuish, and Professor H. L. Smith, with Mr. R. R. Bennett (Hon. Secretary). It was reported that the following members had died since the last meeting of the Committee: Mr. J. J. Evans, J.P., Liverpool, elected in 1870; Mr. J. E. Brunker, M.A., Dublin, elected in 1878. The Secretaries were instructed to express the sincere condolences of the Executive to the relatives. The following Sub-Committees were elected: *Research.*—The President, Lieut.-Colonel E. F. Harrison, Captain H. Finnemore, Professor H. G. Greenish, Professor H. L. Smith, Messrs. H. Deane, F. W. Gamble, C. H. Hampshire, T. Stephenson, and R. R. Bennett (Convener). *Practice Section.*—The President, Lieut.-Colonel E. F. Harrison, Captain H. Finnemore, Messrs. T. O. Barlow, F. W. Gamble, A. R. Melhuish, H. Skinner, G. Whitfield, H. Wyatt, and R. R. Bennett (Convener). *Conference Development.*—The President, Lieut.-Colonel E. F. Harrison, Captain H. Finnemore, Messrs. T. O. Barlow, E. M. Holmes, D. Lloyd Howard, J. C. Umney, G. Whitfield, and R. R. Bennett (Convener). Mr. J. O. Braithwaite was re-appointed Editor of the "Year-book of Pharmacy," and Mr. T. Stephenson compiler of the section devoted to new remedies. The following were elected members: Mr. H. Brindle, Manchester; Mr. H. Tappenden, London; Mr. H. Kenneth-Gordon, London; Mr. W. Miall Jones, Aberystwyth; and Mr. R. R. Hallaway, Carlisle.

Legal Reports.

Arsenic in Baking-powder.—At Swansea last week, T. Griffiths, Swansea Road, Pontardulais, was summoned for selling baking-powder which the analyst certified to contain $\frac{1}{10}$ gr. of arsenic per lb. The Bench imposed a fine of 5*l.*, and 2*l.* 2*s.* costs.

Using Flour for Paste.—At Hastings recently, Mr. A. Mills, decorator, was summoned for using wheaten flour for purposes otherwise than as human food, contrary to the Wheat, Rye, and Rice (Restriction) Order. The evidence showed that the inspector discovered defendant using wheaten flour for paste. When spoken to about the matter defendant said that the substitutes are of no use. A fine of one guinea was imposed.

Sale of Cocaine.—At Manchester Police Court on October 8, Mr. John Sumner, chemist and druggist, trading as Wright & Barnaby, 223 Oxford Road, Chorlton-on-Medlock, was charged, under Regulation 40B of the Defence of the Realm Act, with failing to enter the sale of cocaine in the cocaine register. The sale took place on prescription, and when the police called on defendant it was found that the only record was in the prescription-book. Defendant, who did not appear, wrote stating that he had believed the entry in the prescription-book to be sufficient. A fine of 5*l.* was imposed.

Noxious Drugs.—At Southampton Police Court on October 8, a fire-brigade superintendent named Johnson was charged, under the Offences against the Person Act, with counselling a young woman named Pink to administer to herself a noxious drug. The girl gave evidence that defendant on four occasions gave her drugs, which she threw away. One of the bottles, which was afterwards recovered, was found to contain iron sulphate, Epsom salt, and decoction of aloes. Some powders were found to consist of quinine. Witness denied that she obtained them from a woman at Shirley, and persisted in her statement that Johnson gave her the drugs. Defendant, she said, told her one of the drugs was ergot. The hearing was adjourned.

Alleged Short Delivery.—In the City of London Court on October 9, before Mr. Registrar Wild, a claim was made by Herbert William Holmes, trading as Bishop & Co., 63 and 64 Bartholomew Close, E.C., against Mr. T. Nagai, 29 Pentonville Road, N., for 9*l.* 17*s.* 8*d.*, balance of account for tooth-paste tins supplied. The defendant paid the sum of 4*l.* 14*s.* 2*d.* into court, disputing the balance of the claim, alleging that there had been short delivery of tooth-paste tins. Mr. Clarke said plaintiff is a chemist's sundriesman and manufacturer of seltzogenes and tooth-powder tins. The claim was for the price of tooth-powder tins invoiced to the defendant, a Japanese gentleman carrying on business in this country. Defendant had made payments on account in February, but no complaint was made until early in March such as he was now setting up, that there had been short delivery of tooth-powder tins. The defendant in his evidence said when delivery was made of the first six cases of tooth-powder tins he counted them and found them short. He, however, did not take careful notes of the shortage until the second delivery was made in February. Those were counted, and in all twenty gross of tins were found to be short delivered. The Registrar said he was not bound to recognise that the defendant was a foreigner and perhaps not used to our ways of doing business, but the defendant had had notice two years ago of the clause appearing on the plaintiff's invoices that no claim was recognised unless advised within three days of the receipt of goods. He (the Registrar) was not going to say whether three days was reasonable or not, but defendant had allowed more than a month to elapse after having examined the goods before he complained to the plaintiff by letter. Judgment for the plaintiff for the amount claimed, with costs.

Pharmacy Act Case.—At Swindon County Court on October 10, an action was brought by the Pharmaceutical Society against John Thomas Painter, who carries on a drug-business, to recover two penalties of 5*l.* each on the ground that defendant, not being a registered chemist, sold or kept open shop for the retailing, dispensing, or compounding of poisons known as diachylon and lysol on July 4 and July 12 respectively, contrary to the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908. Mr. A. J. Atkins (London) appeared for the Society. Evidence was given by a young woman that, acting on instructions, she purchased aloes and diachylon from defendant, and George Waldock, an inspector of the Society, spoke to buying at defendant's shop a bottle of lysol, for which he paid 1*s.* Mr. Archibald Allen, Divisional Secretary to the Pharmaceutical Society, stated that diachylon is a scheduled poison, and, answering the Judge, said it was a most dangerous poison, and is never legally used as a medicine for internal purposes. Evidence was also given by Mr. Harry Moon, Deputy Registrar of the Pharmaceutical Society, and Mr. Thomas Tickle, an Exeter analyst. Defendant's answer to the charge was that he was ignorant of the law. His Honour said he could not call defendant a chemist or druggist, because in the ordinary acceptation of the word he was a quack. Diachylon is a most dangerous poison if sold indiscriminately, and a more dangerous thing to sell to young girls he could not imagine. He saw no reason why he should not inflict the full penalty in each case, and there would be judgment for 10*l.* and costs. It was stated that defendant was recently fined 25*l.* at the police court for selling unlabelled poisons on a date different from those mentioned in the present instance (see *C. & D.*, August 18, p. 38). Defendant: This will ruin me, your Honour. The Judge: I cannot help it. If you carry on a business of this kind you must keep the law. It is a very dangerous business.

Deed of Arrangement.

Sutcliffe, William James, 3 St. James Street, and Pleasant View, Bacup, chemist and druggist. Dated October 2; filed October 5. Trustee, E. H. Simpson, Victoria Street, Blackburn. Unsecured liabilities, 1,928*l.*; estimated net assets, 426*l.* The creditors include Bruce, Green & Co., 18*l.*; Anglo-American Optical Co., Ltd., 8*l.*; Borgzinners, Ltd., 7*l.*; Chymol, Ltd., 3*l.*; Elliott Optical Co., 4*l.*; J. C. Gambles & Co., 5*l.*; D. & W. Gibbs, Ltd., 9*l.*; General Optical Co., 10*l.*; London Essence Co., 3*l.*; Parke, Davis & Co., 4*l.*; A. & F. Pears, Ltd., 3*l.*; Yardley & Co., Ltd., 12*l.*; Cantrell & Cochrane, 8*l.*; Cupal, Ltd., 10*l.*; Arthur H. Cox & Co., Ltd., 3*l.*; Ucal, Ltd., 12*l.*; Hirst, Brooke & Hirst, Ltd., 8*l.*; Evans Sons Lescher & Webb, Ltd., 17*l.*; Original Antiseptic Pastille, Ltd., 4*l.*; Hockin, Wilson & Co., 3*l.*; Hough, Hoseason & Co., 17*l.*; Liebermann Optical Co., 4*l.*; James E. Wilkinson, 4*l.*; Westmacott & Son, 11*l.*; Perry & Hope, Ltd., 6*l.*; Cuxson, Gerrard & Co., Ltd., 3*l.*; Will Vernon & Sons, 15*l.*

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

Compagnie Hematogene, Ltd. (P.C.).—Capital 17,000*l.* Objects: To carry on business as wholesale or retail chemists and druggists, manufacturers of and dealers in medicines, etc. R.O., 20 St. Mary Axe, London, E.C.

Midlothian Chemical Co., Ltd. (P.C.).—Capital 2,000*l.* Objects: To carry on the business of manufacturers of and dealers in natural fertilisers, fish manures, etc. The first directors are A. R. Stark, 65 West Regent Street, Glasgow, and Chas. Macpherson, Burnside, Bishopriggs.

A. Vernon Ward (Consolidated), Ltd. (P.C.).—Capital 10,000*l.* Objects: To carry on business as electro-therapeutists, masseurs, teachers of physical culture, dentists, manicurists, chiropodists, Turkish and other bath and nursing home proprietors, chemists, druggists, etc. R.O., 319 Oxford Street, London, W.

Benger's Food, Ltd.—The directors have declared an interim dividend for the six months ended September 30 on the ordinary shares at the rate of 1*s.* per share, free of income-tax.

United Indigo and Chemical Co., Ltd.—The annual report shows 48,967*l.* net profit, *plus* 21,995*l.* brought forward. Dividends are recommended upon both participating preference and ordinary shares of 20 per cent., *plus* 5 per cent. bonus upon net profits to directorial managers; 24,000*l.* has been provided for British excess-profits duty, besides an amount held against similar charge upon the two American subsidiary companies.

Companies which May be Wound Up.—The undermentioned companies will, unless cause is shown to the contrary, be struck off the Register and the companies be dissolved three months after October 2: Bitumens, Ltd.; Hydrocarbon Research Co., Ltd.; Karina Face-powder Syndicate, Ltd.; Mies' Electrical and Chemical Culture, Ltd.; Shaw's Drug Co., Ltd.; Usa Photo Papers, Ltd.; Vaporisateur Hygienique Radium, Ltd.; and Yorkshire and Cambrian Medicine Co., Ltd.

Births.

Hills.—At Drylaw, Hitchen Hatch Lane, Sevenoaks, on September 28, the wife of James Stuart Hills, Ph.C. (John Bell, Hills & Lucas, Ltd.), of a son.

Hughes.—At The Pharmacy, Ebenezer, on October 4, the wife of T. Griffith Hughes, chemist and druggist, of a son.

Keane.—At 89 Lower Baggot Street, Dublin, on October 5, the wife of S. Keane, R.D., The Drug Stores, Kilkenny, of a son.

Walshe.—At 61 North Circular Road, Dublin, on October 1, the wife of T. H. Walshe, Ph.C., Howth, of twin daughters.

Marriage.

Hawkins—Roper.—At the Parish Church, Oundle, on October 2, George Hawkins, Biggin Grange, to Alice Mary, youngest daughter of the late Mr. H. E. Roper, chemist and druggist, Oundle.

Deaths.

Appleton.—At Shiregreen, Sheffield, on October 7, Mr. Algernon T. Appleton, aged seventy-six. Mr. Appleton, father of Mr. J. T. Appleton, chemist and druggist, Sheffield, and brother of Mr. A. J. Appleton, chemist and druggist, Darnall, was born at Attercliffe, and was a veteran of the American Civil War.

Burchett.—At St. Anthony's Home, North Cheam, on October 2, Mr. Edward Burchett ("John"), for nearly forty years faithful servant at the South London School of Pharmacy and Central Public Laboratory.

Cadoux.—At 29 St. Peter's Road, Leicester, on October 6, suddenly, Mr. Samuel Henry Cadoux, chemist and druggist, aged seventy-two. Mr. Cadoux's death was due to valvular disease of the heart.

Dawney.—At Clifton, on October 7, after an operation, Mr. Charles Benjamin Dawney, pharmacist, 47 Regent Street, Kingswood, Bristol, aged forty-five.

Evans.—We regret to have to record the death of Sir Edward Evans, D.L., J.P., chairman of Evans Sons Lescher & Webb, Ltd., Liverpool and London, which took place at Spital Old Hall, Bromborough, Cheshire, on October 10. His eldest brother, John J. Evans, died only ten weeks previously. At that time Sir Edward Evans was in poor health, and for the last few weeks it was felt that the end was not far off. He was in his seventy-second year. Sir Edward was the second son of Edward Evans, and grandson of the founder of the wholesale drug-business now carried on by Evans Sons Lescher & Webb, Ltd. He was educated at Wallace Hall, Dumfriesshire, and returning to Liverpool entered the offices of George Booker & Co., Demerara merchants, which firm still exists as Booker Brothers & McConnell. Young Evans was with this house for four years, during which time his father, to develop his son's business training, required him to keep an account of all his private expenditure, a system which we believe Sir Edward kept up until recently. In 1866 his services were required at 56 Hanover Street, and after nine months there he was sent out on a journey, taking ground which he covered regularly for twenty-one years. When he reached his majority he became a partner of Evans Sons & Co. When his father retired from the business he had four sons associated with him in partnership—John James Evans, Edward Evans, jun., William Paterson Evans, and Alfred Bickerton Evans, the last-named residing in Montreal and managing the Canadian business (now merged in the National Drug and Chemical Co. of Canada, Ltd.). Mr. W. P. Evans is the survivor of the three brothers in England, and all have taken the highest position in the wholesale drug-trade of the United Kingdom, and have filled the position of President of the Drug Club. Sir Edward was President of the Club in 1907-8 and of the British Pharmaceutical Conference in 1912. The pioneer work which he did for his firm in Canada and the United States was of an exceptional character, and the name of Evans was in consequence as well known in drug circles in Canada as in this country. Sir Edward Evans and his brothers inherited from their father the art of serving the public otherwise than in business, by taking an active part in county administration and magisterial, municipal, and poor-law service. Sir Edward Evans had not long passed his majority when he obtained local reputation as a public speaker and debater. Like his father he was a strong Gladstonian, and worked hard in the local organisation of the party. He was for many years Chairman of the National Liberal Federation Executive. Sir Edward Evans was knighted in July 1906, and our remarks on that occasion may be quoted: "Sir Edward Evans has for over a quarter of a century been a leading Liberal in Liverpool. It is as Chairman of the Executive of the National Liberal Federation during the last eleven years—*i.e.*, while his party has been out of office—that he has had an opportunity such as even the late Mr. Schnadhorst might have quailed at; but he stuck to it, rarely showing himself, but all the time was organising, encouraging, and pioneering the rank-and-file of Liberals to furtherance of their principles. Moreover, he has been constantly in touch with the leaders of the party. The late Mr. Gladstone esteemed him highly as a Liberal stalwart and organiser. The Earl of Rosebery has been his guest at Spital Old Hall, and it is no secret that the political sympathy between the Earl and Sir Edward in regard to Imperial matters is exceptionally close. The Prime Minister highly appreciates Sir Edward's qualities as a party leader." In December 1909 the Liberals of Liverpool showed their appreciation of his services by presenting him with his portrait, which had been exhibited in the Royal Academy, Mr. Asquith acting for them on the occasion, and saying what every pharmacist who knew him can say: "Sir Edward Evans has so comported himself and so conducted his public life as never for a moment to forfeit the esteem and respect even of his most bitter opponents." On the same occasion Lady Evans was presented with a diamond pendant, which was handed to her by Mr. Asquith. Sir Edward's recreation was golf, and those who attend the British Pharmaceutical Conference know with what enjoyment he engaged in the game. He began playing in 1874 at the Royal Liverpool Golf Club, Hoylake, and was captain of the club in 1891. He had also been captain of the West Lancashire Golf Club, the Wallasey Club, the Formby Golf Club, and the Llandudno Golf Club. Of his personal charm very many engaged in pharmacy have had experience. His engaging smile placed one at one's ease, and the patience with which he listened to an interviewer bespoke the tolerance and broadmindedness which, with his business ability, were his pre-eminent characteristics. The outbreak of war distressed him, as it did every Englishman who found he had been deceived in his estimate of German civilisation, but Sir Edward's optimism that good would come out of the present fearful struggle was unbounded. When we interviewed him in July of last year he made many excellent suggestions for meeting the difficulties occasioned by the war, and the reconstruction period that will follow. He referred to the address he gave before the Edinburgh Conference in 1912, especially emphasising the fact that this country should not depend on enemy countries for any medicinal plant or chemical of first-class importance. The new works which his company have erected at Runcorn since the outbreak of war ensures that many new manufactures will become a permanent feature. The fact that salvarsan is made there is sufficient to show that, no matter how complicated the process of manufacture, the company intend making any product for which the demand exists on a sufficient scale to warrant them laying down plant. Sir Edward Evans was married in 1869, and is survived by Lady Evans, two sons (Edward Nevett Evans and John Nevett Evans), and three daughters. The funeral will take place at the Parish Church, Lower Bebington, Cheshire, on October 13, at 2.30 P.M.

Sir Edward Evans, D.L., J.P.

Froedman.—At North Frederick Street, Dublin, on October 4, Mary Anne, the beloved wife of Mr. F. H. Froedman, Ph.C.

Medhurst.—At Hill Side, Chobham, on September 23, Mr. William Aubrey Medhurst, chemist and druggist, aged seventy-two.

Morris.—At Emor Street, Portobello, on September 16, Mr. William Richard Morris, late of McMaster, Hodgson & Co., chemists, Capel Street, Dublin.

Rogers.—At 108 Rye Lane, Peckham, London, S.E., on September 25, Mr. Henry Frost Rogers, chemist and druggist, aged eighty-one.

Throp.—At Conisborough, on September 20, after a short illness, Mr. Selwyn Throp, chemist and druggist, late of 92 King Cross, Halifax, aged twenty-three.

Died on Service.

Atkinson.—Gunner Norman Atkinson, Royal Field Artillery, second son of Mr. A. Atkinson, Ph.C., Parliament Street, Harrogate, has been killed in action.

Bells.—Private Herbert Charles Bells, R.A.M.C., has died of wounds received while on service at a dressing-station. Prior to his enlistment two years ago he had for three years been with Mr. A. Stooke, chemist and druggist, Gillingham.

Preston.—Major Stanley Preston, Middlesex Regiment, was killed in action on September 25, aged thirty-five. Major Preston, who was the younger son of Lieutenant-Colonel Alfred Charles Preston, V.D., senior partner of Thomas Hodgkinson, Prestons & King, 262 Bishopsgate, London, E.C., was educated at Aldenham School, and on leaving received a commission in the Tower Hamlets Rifle Brigade. In May 1906 he was gazetted to the Middlesex Regiment, and shortly afterwards went out to India, where he was a member of the Staff during the King's visit, and received the Durbar Coronation medal. Promoted captain in 1914, he raised two extra-European Volunteer battalions on the outbreak of war. In July 1915 he was ordered home and placed on the Staff at the Front; last February he was transferred to his battalion, and was gazetted acting-major in the following month. He was mentioned in despatches. His C.O. writes: "Was respected and esteemed by all ranks, and died fighting for his country."

Stark.—Sergeant A. Stark, South Lancashire Regiment, who had been on active service since March last, has been killed in action. Before enlisting he was with J. Crosfield & Sons, Ltd., Warrington.

White.—Second-Lieutenant Edwin T. White, King's (Liverpool Regiment), son of the late Mr. T. McCall White, chemist and druggist, Wigton, has been killed in action, after service dating from soon after the outbreak of war.

Personalities.

Mr. A. E. Marshall, Bath, has been appointed manager of the factory of "Fastnet" Surgical Dressing Co., Highbury, N.

Mr. Herbert Charles Wilson (Tomlinson & Hayward, Ltd., manufacturing chemists, Lincoln) has been nominated Sheriff of Lincoln for the ensuing year.

Mr. Ernest T. Sharp, chemist and druggist, late branch manager for W. Bates & Co., Ltd., Southampton, has been presented by friends with a silver cigarette-case on leaving.

Mr. G. H. Gower, manager of Prentice Bros.' chemical-works at Yarmouth, who was recently made a borough magistrate, has since been elected a Town Councillor for the North Ward.

Mr. A. L. Foster, manager of the Harrogate branch of Camwal, Ltd., has been elected a member of the Borough Corporation, thus following in the footsteps of the late Mr. J. H. Wilson, J.P., a Camwal director, who took office as Mayor of Harrogate.

Miss L. K. Evans, daughter of Mr. J. Evans, chemist, Dovey Pharmacy, Aberdovey, has passed the Final examination at Anstey Physical Training College, Erdington, with seven first-class and five second-class honours, as well as additional medals, etc. Miss Evans previously passed with honours the Cambridge Senior Local examination.

Norwegian Aluminium Sulphate.—According to "Tidens Tegn" (Christiania) of September 5, a Norwegian electrical company has, after successful experiments, erected plant for preparing aluminium sulphate from labradorite, a mineral which occurs in Western Norway. This plant is expected to supply the entire Norwegian demand for aluminium sulphate for the paper-industry, which has hitherto been obtained from abroad.—*Board of Trade Journal.*

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks' Journal," September 26, 1917.)

"Magnesan"; for chemicals (1). By A. Smith, 4 Bank Street, Clayton, Manchester. 378,954.

"Ixol"; for goods (1, 3, and 48). By Ridley & Dixons, Ltd., Pack Horse Lane, Carlisle. 376,489/90/92.

"Fly Spray and Air Purifier Valenda Brand"; for chemicals (2) By C. Thomas & Bros., Ltd., Bristol. 378,647.

"Interstock"; for chemicals (2). By W. Pearson, Ltd., 15 Elm Street, Gray's Inn Road, W.C. 1. 378,990.

"Acriflavine Avalin Brand" and "Acriflavine Avvalin Brand"; for all goods (3). By Levinstein, Ltd, Crumpsall Vale, Blackley, Manchester. 377,572/637. (Associated.)

"A Cure for Indigestion Serathol Brand," for medicines (3); "Kusk," for hair and scalp preparations (48). By E. S. Prather, 177A High Street, Kensington, W. 8. 378,913, 379,086.

"Medicated Soap Melzopan Brand," for all goods (3); "White Sparrow," for all goods (48). By J. Mellis & Co., High Street, Prestonpans. 378,984, 379,503.

"Gold Dish" under picture of same; for goods (47) and for perfumery, etc. (48). By F. S. Cleaver & Sons, Ltd., Gould Road, Twickenham. 379,044/5. (Associated.)

"Diadem"; for face-cream (48). By Robartes, Ltd., 128 Jermyn Street, S.W. 1. 379,275.

"Minstrel"; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 379,410. (Associated.)

(From "The Trade-marks Journal," October 3, 1917.)

Circular belt device including words "Mace Brand," with hand holding mace, surrounded by words "Omnes Vis Populi"; for all goods (1). By Gourmet & Co., 2 & 4 Mount Pleasant, W.C. 1. 379,417.

"Minaret" under picture of same; for chemicals (2), medicinal chemicals (3), and for cleansing preparation (50). By C. H. Parsons & Brother, Ltd., Ashby-de-la-Zouch. 379,412/13/15

"Pills Santine Brand"; for pills (3). By The Santa Drug Co., 136 Barnsley Street, Wigan. 377,058.

"Face Cream Moskola Brand"; for medicinal chemicals (3). By Annie Stevens, 96 Sterling Place, Brooklyn, New York. 377,425. (Associated.)

"Ointment Thexah Brand"; for ointment (3). By H. F. Taffs, 46 Farringdon Street, E.C. 4. 377,440.

"Rito"; for animal foods (42). By The Molassine Co., Ltd., Tunnel Avenue, East Greenwich. 375,989.

"Eydol"; for eye lotions (48). By Ada Fisher, 10 Norfolk Street, Strand, W.C. 2. 379,037.

"Carmen" under picture of Spanish girl; for perfumery, etc. (48). By L. and J. Dixon, Canal Street, Rochdale. 379,128.

"Somax" for all goods (48). By Madame Marie, 17 Goodge Street, Tottenham Court Road, W. 1. 379,210.

"Ballad" under picture of minstrel; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 379,506. (Associated.)

(From "The Trade-marks Journal," October 10, 1917.)

"Pyrophosphoric Acid Substitute Perpyro Brand"; for a chemical (1). By B. Levin, 46 Victoria Buildings, Manchester. 378,277.

"Ladder" under picture of same; for disinfecting soap (2). By Lever Bros., Ltd., Port Sunlight, Cheshire. 379,377. (Associated.)

"Extract of Malt with Cod-Liver Oil Substitute Molsynth Brand"; for an internal medicine (3). By Oppenheimer, Son & Co., Ltd, 179 Queen Victoria Street, E.C. 4. 377,139.

"Painless Child-birth Injection Selniap Brand"; for a medicinal preparation (3). By C. R. Harker, Stagg & Morgan, Ltd., Emmott Street, Mile End, E. 1. 378,001.

"Powders Zactyl Brand"; for medicinal tablets and powders (3). By P. G. Curtis, 19 Victoria Place, Brightlingsea. 378,552.

"Face Cream Evanola Brand," for medicinal chemicals (3), and for perfumery, etc. (48); Face Cream Moskola Brand," for perfumery, etc. (48). By Annie Stevens, 96 Sterling Place, Brooklyn, New York City. 378,859/860, 377,426. (Associated.)

"Aperient Medicinal Water—Eaulax Brand"; for an aperient medicinal water (3). By Timothy White Co., Ltd., 30 Chandos Street, Portsmouth. 378,965.

"Ointment Ronub Brand"; for chilblain ointment (3). By W. H. Wilkins, 359 Birchfield Road, Perry Bar, Birmingham. 379,058.

Device including word "Heenzo"; for medicinal chemicals (3). By G. W. Hean, 178 Castlereagh Street, Sydney, N.S.W. 379,477.

"Swytine"; for sugar substitutes (42). By J. Denoual & Co., Asylum Road, Peckham, S.E. 15. 378,910.

"Terebene" and device, including pine tree; for soap (47), perfumery, etc. (48), and for cleansing compounds (50). By F. S. Cleaver & Sons, Ltd., Gould Road, Twickenham. 379,041/042/043. (Associated.)

"Ivos"; for perfumery, etc. (48). By R. Blackie, 168 Tower Bridge Road, S.E. 1. 379,087.

Drugs and Medicines valued at $380,000 were shipped from the United Kingdom to Malaya during 1916, compared with $269,000 in 1915; the chemical imports were valued at $461,000 in 1916, against $237,000 in 1915.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

A New Reaction for Aromatic Aldehydes.—Porth recommends the following reaction for the identification of aromatic aldehydes. It depends on the formation of coloured bodies, by the condensation of the aldehydes of the aromatic series with aromatic amines, the resulting azomethines being very characteristic in their colours. The colours are more distinctive with naphthionic acid than with sulphanilic acid, and the reaction is carried out as follows: 3 to 4 c.c. of an aqueous solution of sodium sulphanilate or naphthionate, of 10-per-cent. strength, is warmed on a water-bath in a porcelain dish, a few drops of an alcoholic solution of the aldehyde are then added, when a colour is seen varying from pale yellow to red, which becomes deeper on evaporating the mass to dryness

Biebrich Scarlet.—Dr. A. Knyvett Gordon, of Virol Research Laboratories, writes to the "British Medical Journal" to point out the advantages of Biebrich scarlet as a plasma-stain. He states that in routine histological work it is customary and advantageous to use a "contrast" stain after the nuclei of the cells have been defined by hæmatoxylin or (in the case of chronic or sublimate-hardened material) by methylene blue. For this purpose eosin is commonly employed, but it has two disadvantages: (1) It not infrequently extracts the colour from the previously stained nuclei; and (2) it colours everything else with the same intensity. Benzopurpurin is free from these drawbacks, but it is useless in weak solution, and in adequate concentration is apt to stain very unevenly and to deposit gelatinous flakes in portions of the section. Picro-rubin (Van Gieson's stain), picro-erythrosin, and similar preparations have the grave disadvantage of discharging the colour almost completely from the nuclei after the preparation has been mounted for a short period. Biebrich scarlet is soluble in water freely, and is best used in 1-per-cent. solution. It never overstains, and does not discharge the colour from the nuclei. Most sections are stained sufficiently in two to five minutes. It does not wash out in alcohol, clove oil, cedarwood oil, or xylol. Its chief advantage, however, is the fact that it stains different tissues with varying degrees of shade and tint. Muscle, for instance, is stained a yellowish-brown, and the protoplasm of young epithelial cells a bluish-pink, while the older keratinised cells are bright scarlet. In an epithelioma, for instance, the degree of pressure to which the epithelial cells have been subjected, which is a valuable guide to the rate of growth of the tumour, is well differentiated. Used after methylene blue for tissues that have been fixed in Flemming's or Zenker's fluid, it does not discharge the nuclear stain. The staining is of marked permanency. He adds that the dye is now being made by British Dyes, Ltd.

Desoxycholic Acid.—Mair ("Bichemical Journal") gives the following process for making this acid, the salts of which have been found to have a special solvent action on pneumococci, etc.: To 4 litres of ox-bile add 240 grams of caustic soda; when the soda is dissolved, the liquid is boiled gently in an iron digester for twenty hours; the volume should then be between 2 and 3 litres. While still hot the liquid is made neutral to phenolphthalein by adding gradually about 350 c.c. of strong hydrochloric acid. A flocculent precipitate of silica is formed, but none of the bile acid is thrown out if the liquid is sufficiently warm. After cooling, the bile is filtered; the filtrate is made acid to litmus by adding about 50 c.c. of glacial acetic acid. The bile acids separate out as a fluid crystalline mass, white at first but rapidly absorbing pigment; the acids are caused to adhere in a single mass by rotating the flask, and the mother-liquor is decanted. The mass is squeezed, transferred to a flask, and dissolved in rather more than equal volume (about 600 c.c.) of glacial acetic acid by warming on the water-bath. The solution is allowed to crystallise by standing for two to three days, the mixed crystals containing practically all the desoxycholic acid, a nearly equal amount of cholic acid, and some fatty acid. The crystals are filtered off, washed free from pigment with 60-per-cent. acetic acid, drained as dry as possible, and redissolved by heating with 300 c.c. of glacial acetic acid. The next crop of crystals is pressed between porous tiles and redissolved by boiling with 750 c.c. of 60-per-cent. acetic aid; the solution is filtered, any fatty matter is skimmed off after cooling, and the crystals which separate are washed first with 60-per-cent. acetic acid, then with water, and are finally pressed and dried at 100° C. The product is practically pure desoxycholic acid, m.p. 172°-173° C.; the yield from 4 litres of bile is 32 to 42 grams; the yield from 1,000 grams of commercial taurocholate is 50 grams.

Trade Notes.

Little Wonder Batteries.—The Little Wonder Battery Co., Ltd., 4 Budge Row, London, E.C. 4, remind us that the time for electric torches has arrived, and that "Little Wonder" batteries are now greatly in demand.

Lactagol.—E. T. Pearson & Co., Ltd., London Road, Mitcham, inform us that they have placed a new size of lactagol on the market to sell at 5s. The wholesale price is 47s. per dozen. The company tell us that many chemists are finding lactagol quite a valuable side-line.

Salicylates.—Some beautiful specimens of salicylic acid and sodium salicylate have been sent us by the London Chemical Works, Ltd., Rubastic Road, Southall. These show that the quality of the company's products is being maintained. The plant is, moreover, being further extended, which shows a determination to hold the business which has been built up.

American Cannabis Indica.—Mr. John Lorimer, merchant and importer, Balfour House, 119 Finsbury Pavement, London, E.C. 2, is importing regularly, and now holds stock of cannabis indica in London, grown under the control of the United States Government in the State of Virginia. Mr. Lorimer has shown us a London analyst's certificate, indicating that samples contain 15.3 per cent. of oleoresin, and from tests which have been undertaken well-marked physiological symptoms have been produced on dogs within an hour. The analyst is of opinion that the samples submitted are indistinguishable from the ordinary cannabis indica.

Wellcome Toilet Lanoline.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., send us a sample of the all-British toilet lanoline which they are producing

under the brand name "Wellcome." It is packed in collapsible tubes with large screw caps—so as to afford a good grip—and the tubes are sent out on display-cards adapted for hanging up in the pharmacy. The preparation is nicely perfumed, and of a suitable consistence for use as an emollient.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

150/1. "Boracile."
151/5. "Espol" spray or enema.
152/33. "Rowland" brand olive oil soap.
153/55. "Radiant" dyes.
154/70. "Epsom" court-plaster.
152/58. Allen's "Mexican" walnut hair-stain.
153/49. Waterproofing preparation for cart-covers: makers.
154/67. Ashby's filter-papers.
155/72. Basdon's inhaler.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C. 4:

"Albion" milk-and-sulphur soap, 138/3
Allen's hair-restorer, 138/3
Ambre eau de Cologne, 137/47
"Antexema," 140/16
Bloc Hyalin (Feret), 140/16
"Brysol," 132/21
Bunter's nervine, 138/3
"C.B.Q." tablets, 139/22
"Calox" tooth-powder, 138/3
"Chemico" body-shield, 136/31
"Energen," diabetic foods, 141/63
"Ever Ready" safety-razors, 137/10
"Farina," 143/40
"Fliban," 148/46
Fullers' earth, 137/46
Gelatin, 103/29
Gowland's lotion, 134/33
"Gre-Solvent," 137/74
"Gripolin," 129/9
"Halazone" water-purifying tablets, 136/24
Hansen's junket-tablets, 140/10
Harrison's pomade 140/16
Haydock's pills, 139/22
Johnson's palmolive soap, 139/22
Johnson's soothing-syrup, 138/3
Joy's anti-asthmatic cigarettes, 138/3
Nikalgin, 148/47
"No Germo," 98/29
Oxygen baths, 89/16
"Pacita," 142/53
"Paragon" bedside-table, 148/48
Roberts' Poor Man's Friend ointment, 142/5
Rudkin's moth-brick, 139/5
Sal Hepatica, 142/53
Santal Midy, 142/53

Observations and Reflections.

By Xrayser II.

The Formation of a Chemical Trades Committee to advise Government on trade matters shows the importance to us of our standing as chemists. It is true that the possession of the title "chemist" has not secured for us the advantage of being represented on this Committee, but the fact of our legal right to it will influence the Committee in listening to us when matters affecting our branch of chemical industry are being considered. That there is not a pharmaceutical chemist on the Committee itself is a great shame; we shall deserve to be ignored to a greater extent still if we are not stimulated by this neglect to fresh efforts to secure full State recognition of our value. To relinquish even so poor a claim to recognition as our title would be to acquiesce in our own extinction.

At the Council-meeting of October 3, eight communications from different bodies were received and considered—some of them on subjects of great importance to the whole body of pharmacists. Only three of the eight appear to have been discussed in full Council; two were, at the President's suggestion, dealt with *in camera* (though the official report of the meeting does not mention the fact), three were referred "to the appropriate Committee." Why this secrecy? What earthly reason is there why our right to the title "chemist," for example, should not be openly considered by our chosen representatives, if I may be allowed to give them that courtesy title? It should be noted that as a result of this secret session the matter of the title was left in the hands of the President, Vice-President, and Secretary. Closely connected with this policy of secrecy is the solid opposition of the Council to Mr. Skinner's very reasonable and weightedly urged proposal to relieve the President of some of his duties by the appointment of

A Consultative Committee. No attempt was made to reply to Mr. Skinner's arguments in support of the proposal, and no reply is possible. It was rejected as "unnecessary." The President does not want to be relieved of his conduct of affairs; he prefers to keep this as much as possible in his own hands, and the Council love to have it so: it saves such a lot of trouble. They—the ordinary members—are quite content with the *rôle* of the Chorus in a Greek play, while somebody else does the business. Our play, so far as the Council is concerned, is a farce (I am judging purely from the official report); let us hope that as regards pharmacists in general it will not turn out to be a tragedy.

My Experience of Women in Shops may have been unfortunate, as your correspondent suggests, but it is not confined to one neighbourhood or to one class of business. I made full allowance for women's lack of experience, and I admit exceptions, but the substantial justice of my remarks was strikingly verified last week. I have had occasion lately to complain strongly of bad workmanship by a firm of world-wide celebrity. Tired of representations through agents without result, I went last week to the London headquarters of the firm in question, taking one of the defective articles with me. I was referred to the "repairs" department, which I found to be run entirely by women under female direction. The head of the department—a very smart, capable woman she was—admitted the justice of my complaint, and offered to exchange the article for another. "But will it be any better?" I asked. She smiled a little wearily. "We are doing our very best to keep up quality," she said, "but conditions are against us; we have scarcely any men left in our factories, and the bulk of the work has to be done by women." "Surely," I answered, "women are as clever as men at this kind of fine work?" "Oh, yes, they are clever enough if they will give their minds to the work, but the majority of them won't, and they are so soon tired; they no sooner begin to get a little expert than they throw up the job for something else." "To get married, you mean?" "No, not necessarily; it is anything for a change with them." If "A Mere Man" desires a confirmation of this report, I will in confidence give him the name of the firm referred to.

"Allen's Commercial Organic Analysis" is one of those monumental works that inevitably, by their worth and magnitude, become classics the moment they are issued. Looking at the nine solid volumes of which the book now consists, I have a feeling of wonder as to how analysts used to get on in the bygone days. It is true that they had numerous volumes by different authors on foods, drugs, etc., but there never has been in the language such a comprehensive or trustworthy work of its kind as "Allen," and we simply could not do without it now. The later editions have been much improved, in my opinion, since the days when A. H. Allen undertook, singlehanded, his *magnum opus*. If there was a fault in the first edition it was that the editor took the results of other workers too much on trust, and much work, some of it not of the highest class, was published without verification. This does not happen now, for while credit is given where credit is due, the present editor has surrounded himself with experts, and we may be sure that everything that is now printed has been carefully verified by one who is a specialist in the subject on which it treats.

The Parliamentary Fund is the subject of an outspoken article by Mr. Hines in this month's number of "The Script." I have more than once said in these columns what Mr. Hines now repeats more emphatically: representative government in this country does not mean the representation of separate interests, but of particular areas. If a pharmacist were to be elected for Hackney, for instance, he would sit not as a representative of pharmacy, but of Hackney; if I were an elector of that borough, I should decline to vote for any candidate on any other ground, and should resent being asked to support the nominee of any outside body whose interests might conceivably clash with those of the constituency, not to say of the country in general. The principle at stake is vital to our present system of government, and desirable as it is on every ground that there should be pharmacists in Parliament, their presence would be dearly purchased if it thus involved the destruction of territorial representation. Men with special knowledge of and interests in any industry are needed in domestic legislation, but a Parliament of specialists!—the idea will not bear thinking of. If our Society should ever attain the position of a constituent body (which I do not suppose), its representative would probably be as reactionary and unenlightened as University members have almost invariably proved.

The Nettle (which was the object of one of your Answers to Correspondents a week or two since) had formerly a great reputation in medicine, and until 1808 a place in our official materia medica. Nettle-broth and nettles boiled as vegetables were in common use as a spring medicine when I was young, and nettle-beer is, of course, still in vogue. That the plant has real remedial properties cannot be doubted, but most of those anciently attributed to it were imaginary—as, for instance, that its seed is an antidote to hemlock, henbane, belladonna, the bites of serpents and mad dogs, and so on. With regard to one of its supposed virtues Gerard and Culpeper are strangely at odds. The former says it is good for those who cannot breathe unless they hold their necks upright, the latter that it helps those who cannot hold their necks upright. One suspects that both wrote from hearsay, and that both were wrong. Culpeper has a very long list of the nettle's uses, but it is more noteworthy that Healde, in his translation of the London Pharmacopœia of 1788, speaks highly of its value in nephritic disorders, in internal hæmorrhages, and in phthisis.

Peroxide of Hydrogen
(H_2O_2)
KINGZETT'S PRESERVED QUALITY.
INVALUABLE
1. As a wash for wounds, ulcers and sores.
2. For use in midwifery cases.
3. As a gargle in cases of sore throats.
4. As a mouth-wash.
5. For application in cases of bites from venomous insects.
6. For removing fruit stains from linen.
7. As an air purifier (by spray), &c.

SOLD IN 10 VOLUMES STRENGTH, AND PUT UP IN
16-oz. bottles, retailing at 1/6 each.
8 " " 1/- "
4 " " 9d. "
Also in Bulk.
Trade Prices and Leaflet on application.
The "SANITAS" Co., Ltd., Limehouse, London, E. 14.

BRITISH ABSOLUTE ALCOHOL
Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd., LAMBETH, S.E. 11

REYNOLDS & BRANSON, LTD.,
Grand Prix **LEEDS.** Turin 1911.
PHARMACEUTICAL PREPARATIONS.
Tinctures, Ointments, Pills, Tablets, Suppositories. Standardised and Clinically Tested Galenicals, &c.
SURGICAL INSTRUMENTS.
X-Ray and Electro-Medical Apparatus, Dressings, &c.
AERATED BEVERAGES.
Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.
SCIENTIFIC APPARATUS.
(Chemical, Physical, and Photographic). Balances and Weights.
CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

Fletchers' Concentrated Liquors
offer a perfect alternative to the discarded B.P. Tinctures and Syrups.
FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Australian Trade.

With the prolongation of the war British manufacturers and exporters of chemicals and drugs find themselves in an increasingly difficult position in regard to overseas commerce with Australia. So many of the factories in this country are Government-controlled and occupied entirely in the production of necessaries of war that there is very little surplus left over for export, while there are many wholesale druggists and manufacturing chemists who are able to produce goods for export but cannot obtain the freight or necessary permits. These difficulties are also added to by very largely increased freights and insurance, which considerably facilitates the efforts of foreign manufacturers in capturing British trade in Australia. This competition particularly applies to the United States and Japan, who since the war have taken advantage of these circumstances to do everything possible to increase their Australian commerce. By the end of the war it is anticipated that it will be difficult for British manufacturers to regain the position which they previously held in the Australian markets, but it may be asserted with confidence that in the trade-war which will follow on the termination of hostilities this country will be in a position, as the result of her enormous war efforts, successfully to continue the combat on more well-defined methods. In this connection the Australian Association of British Manufacturers and their Representatives, of Melbourne, are doing much quiet and useful work in regard to the elimination of the enemy and the consideration of the question of the further extension of preferential duties on goods of British manufacture. The Association has recently issued its annual statement of "competitive imports" into the Commonwealth for the period July 1, 1915, to June 30, 1916, the information having been compiled by Mr. G. H. Knibbs, C.M.G., Commonwealth Statistician. This statement shows that the total of competitive merchandise imported during the above period amounted to 55,579,269*l.* (gross imports 77,521,142*l.*), against 48,867,011*l.* (gross imports 64,431,837*l.*) in the 1914-15 period. The total of competitive manufactured merchandise is arrived at after the deduction of specie, bullion, and such non-competitive items as tea, tobacco, sugar, rice, etc. The origins are sufficiently indicated in the following table:

From	1914–15	Per cent.	1915–16	Per cent.
	£		£	
United Kingdom ...	31,732,974	64.9	34,562,821	62.18
British Dominions ...	1,899,075	3.8	2,473,470	4.45
United States ...	7,430,170	15.2	10,594,793	19.06
Other countries ...	7,804,792	16.1	7,948,185	14.31

From the foregoing table it will be seen that in spite of the increase in the value of the imports from the United Kingdom the percentage has decreased from 64.9 per cent. in 1914-15 to 62.18 per cent. in 1915-16, while the proportion obtained from the United States has increased from 15.2 per cent. in 1914-15 to 19.06 per cent. in 1915-16, which confirms what we have already said in regard to foreign competition.

Details are given of the goods which are classified as "competitive imports," among them being the following:

—	Total of All Countries	U.K. Origin	British Dominions	U.S.A. Origin
	£	£	£	£
Spirits	1,171,415	1,099,079	5,964	31,763
Chemicals—				
Pharmaceutical ...	1,351,896	580,909	28,391	285,387
Industrial... ...	795,915	565,388	3,756	119,058
Fertilisers... ...	26,887	937	10	—
Paints and varnishes	595,806	459,328	206	120,580
Rubber goods ...	941,512	315,047	72,288	480,553
Surgical and scientific instruments ...	607,530	288,859	1,248	274,047
Oils, fats, and waxes	556,108	252,678	33,572	160,180
Beverages (non-alcoholic)	528,904	339,092	5,219	5,467

It will be noticed that our share of the trade in pharmaceutical chemicals is 42.9 per cent. only, that of the United States being 21.1 per cent. This, of course, indicates the strong competition from that quarter which has been progressive since the war, as we find that in 1915 the share of the United Kingdom was 53.1 per cent. The 5-per-cent. preferential duty on pharmaceutical chemicals is evidently of little benefit to this country, because out of the total of 285,387*l.* worth imported from the United States 280,589*l.* worth was goods subject to preference.

Methylated-spirit Supply.

Supplies of both industrial and mineralised methylated spirit are becoming increasingly difficult to obtain from the methylators, owing to the large requirements for war-purposes. These difficulties were alluded to in our Trade Report last week, and as we have since received several inquiries asking us for any assistance in obtaining supplies, it may be as well to define the actual position, so that chemists and druggists licensed to retail will know how to act. It appears that a circular letter has been sent out to the methylators by the Propellant Supplies Branch of the Ministry of Munitions in which attention is called to the increasing requirements of spirit for war-purposes and medical supplies, and the consequent necessity for the exercise of the greatest economy in the use of spirit for ordinary trade requirements. The circular goes on to state that—

"Methylators have been informed through their Association that it is desired that those of their customers should have preference in the supply of spirit who are already entitled to use 'A' certificates for obtaining the materials they require. As, however, the issue of 'A' certificates for spirit alone is not applicable, it has been decided to substitute a written undertaking, which should be sent you by those requiring spirit, stating that it is for purposes connected with the war or for medical requirements.

If spirit is required for ordinary trade purposes, it is desired that methylators will do what is possible to execute orders as and when the quantity of spirit available will permit.

With regard particularly to mineralised spirit, the Department desires to discourage the use of this for burning, and methylators are asked to co-operate with the Department by endeavouring to restrict supplies of this spirit as far as possible, but of course it is recognised that hospitals, medical institutions, infirmaries, etc., must continue to receive it.

It is the wish of the Department to interfere with the ordinary trade as little as possible, but it is obvious that the requirements of spirit for purposes connected directly and indirectly with the war and for medical supplies must be met first, and I am to ask that you will kindly do what is in your power to assist in achieving the result it is desired to attain—viz., the conserving of spirit-supplies throughout the country."

That is the position from the official point of view, but it will be observed that a certain amount of latitude is given for "ordinary trade purposes," which, however, would not include its sale to the public for burning, so that there will be no need for many retailers to renew their 10*s*. Excise licence which fell due on October 1. We notice that since the issue of the official circular methylators have refused to supply their customers without the production of a Class "A" certificate, so that it is possible that retailers and manufacturers will only be able to obtain supplies when the quantity of spirit available will permit.

Exports to Neutrals.

The adoption of a more vigorous blockade against Germany by the prohibition of exports to Scandinavia and Holland, mentioned in last week's *C. & D.* (p. 34), means a further diminution in the small volume of trading in chemicals, drugs, essential oils, etc., which has been taking place between these neutrals and the United Kingdom. For several months past it has been very difficult to procure licences to export drugs even in small quantities, to Holland in particular, so that no surprise need be felt at the further tightening-up of the blockade. Many drugs in Germany are at famine prices, and neutrals seem willing to starve their own markets in order to obtain the handsome prices Germany is prepared to pay. There is, however, no new policy involved regarding our exports to Scandinavia, the Proclamation being merely an extension of the principle which is to be followed by the Allies. Briefly, its object is now to require export licences for goods of every kind which it is desired to export to Scandinavia and Holland, with the exception of "printed matter" and "personal effects accompanied by their owner." It should be explained that hitherto certain classes of goods have been exempt from licences, but in order to enable the authorities to control the whole of the export trade of this country so as to direct its flow, and in order to secure uniformity of practice, it has now been decided to treat all goods alike. We gather from the War Trade Department that it is not proposed immediately to refuse all consideration of applications for the grant of licences for the export of goods which have not hitherto been prohibited from export to Norway, Sweden, Denmark, and Holland, but which now become prohibited under the new Proclamation. The continuance of this arrangement, however, by exporters must not be counted upon in the future. The special arrangements in regard to the exports to Sweden (see *C. & D.*, August 16, 1916, p. 47) are now withdrawn, that country being placed on the same footing as the other Scandinavian countries and Holland. It may be pointed out that this Proclamation applies to articles consigned by parcel-post. Similar action has already been taken by the United States in regard to exports to Scandinavia and Holland, and it is anticipated that France and Italy will follow the lead given by the United States and Great Britain.

Doing without Germany.

VIII.—The Necessity.

The series of articles which we have published under the above title is intended to show what the different nations of the Entente are doing to render themselves independent of Germany in the future. The longer the war lasts, the better prepared will the Allies be to do without a nation which recognises no laws, human or Divine. The aspect we desire to put forward now is that there is no choice in this matter: the Allies must make up their minds to carry on all the useful manufactures embraced in the term "key industries." The same spirit cannot exist between us and Germany as before the war. The brutalities and treacheries which that nation has perpetrated have raised a barrier which even peace will not alter. It is the feeling that one would have towards a convict guilty of a particularly brutal crime. Even after the man has served his sentence he cannot expect to mix with decent people as formerly. We know now that every German business or agency in the Allied countries was a possible spy centre, and it is not likely that such an abuse of hospitality will be tolerated in future. There are as yet no signs of contrition in the German people. It seems as though the present generation of Germans, who condone the unspeakable crimes of their country, will have to be replaced by a better generation before the country can be admitted into the comity of nations. That this is no exaggerated view of the situation we judge from recent publications in Germany which refer to the unscrupulous trade tactics that are to be employed on the declaration of peace. An article before us from the "Wirtschaftzeitung der Zentralmäche" states, for example, that in the economic war that is to begin after the military war "no moral scruples should deter us." The nation that has not hitherto exhibited any moral scruples is not likely to win back readily the three-quarters of the civilised world which it has alienated. The article to which we refer gives several suggestions as to what is to be done to regain the position of German trade. The first remedy is stated to be to influence the Press. "We must endeavour to work the Press of the whole world through a well-organised system of representatives and correspondents—very different from idealistic professors with their unsophisticated appeals to reason and justice. Foreign technical journals . . . must equally receive attention from us." Raw materials are to be obtained at any price, the State to grant subsidies if necessary, so that the factories are not to stand idle. "The unique position of some of our industries," such as dye and chemical making, the article continues, will form "an extraordinarily powerful means of reprisal." The scheme is to withhold supplies to the countries that cannot do without these goods, until delivery of raw materials for other industries is furnished. Chemists are not to be allowed to emigrate; "the good-natured admission of

foreigners to German colleges and works must cease. The internationalism of German science can in future confine itself to comparative studies in Sanscrit and mathematics." The article goes on to deal with "the most difficult problem of introducing German trade into enemy countries." It is to be done apparently through neutral countries; all trace of German origin is to be obliterated or it will be "very difficult" to sell goods in the Allied countries. "Every German business man might do well from now onwards to adopt as his *modus operandi* the renewing of his connections with his reliable agents in neutral countries, and removing from his goods every prominent indication of their nationality." What a confession for an erstwhile powerful nation to make! It is as well that the German view is so frankly stated, as it will act as a warning that the black-list of German traders in neutral countries and the requirement of certificates of origin will still be of use. The point we wish to emphasise is that manufacturing chemists must make arrangements for increasing the number of fine-chemicals that they manufacture, so as to cover the whole field of medical and industrial chemicals. Dispensing chemists should also get into the habit of insisting on being supplied with British products or those of the Allied nations. Our legislators must see to it that the freedom hitherto allowed to Germans in trading with this country is restricted, and German trade must "never again" be allowed to reach the same scale as before the war.

Associations' Winter Session.

Blackpool.—The opening meeting of the winter session of the Blackpool and Fylde Pharmacists' Association was held at the Palatine Hotel, Blackpool, on October 5. The President (Mr. J. Laurie) occupied the chair and delivered an inaugural address, which took the form of reminiscences of pharmacy. Mr. Laurie commenced his pharmaceutical career in Scotland, where the pharmacist did the dispensing, the doctor being content to diagnose and prescribe; also, in those days, a great many galenicals were made in the pharmacy and not bought ready-made as at present. Consequently, pharmacy was then much more scientific in practice than it is now. He thought that pharmacists had lost the confidence of the public, and would not regain it until they were better educated. The authorities treat pharmacists merely as tradesmen, and doctors prefer the specialities of big wholesale packing firms to those of individual pharmacists; in fact, the medical man's Pharmacopœia to-day consists principally of the advertising pamphlets issued by the proprietors of the various specialities. Mr. Bailey proposed a vote of thanks to Mr. Laurie for his interesting address, although he could not agree with much that he said. Mr. Greenwood seconded, and agreed with Mr. Laurie's remarks. Several other members spoke on the points raised in the address, the majority taking a more optimistic view of the future than did the President, and the vote was accorded with acclamation. Mr. Laurie replied to his various critics, and expressed his appreciation of the vote of thanks. Attention was called to the Army Council's ruling on the supply of narcotics to medical men in the Forces.

Glasgow.—On October 2 the Musical Section of the Glasgow Pharmacy Athletic Club gave a concert in the Burgh Hall, Dumbarton, in aid of the local Soldiers' and Sailors' Comforts Fund and the Red Cross Society, under the presidency of Major D. McBride. The programme included violin selections by Mr. R. G. Howat, Ph.C., part-songs by the Quartet Party (Miss Chisholm, Miss Tierney, and Messrs. Gowans and Dickson, pharmacists), and a number of solos. Mr. Harrison's humorous readings were highly appreciated, as was also a sketch, "The Doctor's Patients," by the Pharmacy Club Sketch Party (Mrs. Wylie, Miss McCutcheon, Messrs. J. T. Simpson, T. S. Johnstone, and D. G. MacKenzie—the last-named four of whom are chemists and druggists). Miss Nellie Morris was an able accompanist. The concert was highly successful, and the respective funds should be materially benefited.

Great Yarmouth.—The opening meeting of the winter session of the Great Yarmouth Pharmaceutical Association was held at 156 King Street on October 4, Mr. T. B. Male (President) in the chair. The appeal for subscriptions in support of the Society's Parliamentary Fund was considered, and after some discussion it was decided to leave the matter in abeyance.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Meeting of London Panel Chemists.—Though the attendance at the meeting of panel chemists, held at the Arundel Hotel, London, on October 4, fell far short of what was promised for the evening meeting which was stopped by the air-raid, it was remarkably good for an afternoon meeting, more than seventy pharmacists being present during the proceedings. The chair was taken by Mr. Herbert Skinner, who explained that, though the meeting was being held under the auspices of the Progressive Pharmacy Club, the only responsibility assumed by that organisation was the sending-out of notices and the provision of a place for the meeting to be held. More than three hundred panel chemists had promised to attend the meeting at Anderton's Hotel, the holding of which was unfortunately prevented by an air-raid, and the whole of those chemists, in addition to many others whose business engagements prevented them from attending meetings at present, had signed the draft memorial in which their case for better remuneration was set forth. Had the meeting been held at Anderton's Hotel, it was the intention of the promoters to leave it to the panel chemists present to decide what should be done with that memorial, for it was obvious that the Progressive Pharmacy Club could not take further action in the matter, as it did not possess any status which would justify it in approaching the Insurance Commissioners on behalf of panel chemists. That had never been the intention, and it was much to be regretted that unwarranted attacks had been made on the promoters of the meeting on the entirely false assumption that any such course of procedure was ever intended. The resolutions which would have been submitted to the meeting at Anderton's Hotel, and were now about to be submitted, provided that the Local Associations Executive should in the first instance be approached and asked to submit the memorial to the Insurance Commissioners. At the same time, the meeting would have been quite free, as the present meeting was quite free, to take such action as was thought fit. Whatever was decided by the present meeting, the Progressive Pharmacy Club would be prepared to abide by the result, having done its duty and completed all that it set out to do at the request of a large number of panel chemists. As an organisation the Progressive Pharmacy Club was not specially interested in the question of remuneration for National Health Insurance dispensing, but it had been more than willing to lend its aid to the movement for securing full consideration for what might be termed the Minority Report. Mr. Hugo Wolff then proposed the following resolution:

"That this meeting of panel chemists protests against the present remuneration for National Insurance dispensing as being totally inadequate for the services rendered, and is of opinion that there should be (1) a flat rate of not less than 4*d.* on all compounded medicines; (2) a flat rate of 2.5*d.* on all uncompounded drugs and preparations ordered alone, including all proprietaries; and (3) a fixed fee of 1.5*d.* on each transaction when appliances are supplied."

He explained at length how the present Tariff had been arranged, and how it had failed to realise anticipations owing to the manner in which it was interpreted at the pricing offices. He also pointed out inconsistencies on the part of the Local Associations Executive, and stated that the terms proposed by that body could not possibly add more than about 8 per cent. to the present remuneration, though figures which were quoted showed conclusively that an addition of at least 16 per cent. would be required to bring the existing rate of remuneration up to the 1915 level, which should be regarded as the minimum. The resolution was seconded by Mr. Abraham, and carried unanimously. Mr. Skinner then proposed, and Mr. Hines seconded, the following resolution:

"That the draft memorial before the meeting be adopted as expressing the views of the panel chemists here assembled."

After some discussion this resolution was adopted *nem. con.* Mr. Kirkpatrick then proposed the following resolution:

"That this meeting of panel chemists, while protesting in the strongest possible terms against the unsatisfactory Tariff proposals of the Local Associations Executive, and also against the inadequate representation accorded to London and other important areas at the district meetings, realising the paramount importance of united action in approaching the Insurance Commissioners, agrees with the presentation of the memorial to the Local Associations Executive for that body to use for the purpose of furthering the demand for a better professional fee."

This was seconded by Mr. E. A. Atkins, who urged the desirability of maintaining unimpaired the existing pharmaceutical organisation, but insisted upon the necessity of that organisation being captured by progressive pharmacists. Mr. Wolff then gave an account of the visit paid by himself and Messrs. Keith and Kirkpatrick to the meeting of the Local Associations Executive on the previous day. They had received an undertaking that the views on payment expressed in the memorial, if approved at that meeting, would be submitted to the Insurance Commissioners, as showing that there is a considerable demand for a higher rate of remuneration than that proposed by the Local Associations Executive. Mr. F. G. Hines took exception to the foisting on the recent Conference of Representatives, from which Mr. Skinner and himself had been excluded, of the resolution which aimed at preventing the presentation of a minority report. An attack had been engineered by officials at headquarters with the object of discrediting a sincere attempt to obtain better terms for panel chemists. He knew nothing, he said, more calculated to destroy good government and good judgment than the warping of the independence of the Conferences held under the auspices of the Society. With regard to the Tariff the Local Associations Executive had placed too great reliance on the merely mechanical results it obtained from the investigation of some statistics, and seemed to have missed the essential argument the contractor should adopt in submitting such a scheme. After further discussion the resolution was carried unanimously. Mr. Skinner then addressed the meeting briefly on the subject of the Progressive Pharmacy Club, and appealed to those present who were not already members to join the Club. The appeal was well responded to. Mr. E. A. Atkins asked that anyone able to assist in securing information on the position of pharmacists in the Army would communicate with him. A large number of additional signatures to the memorial was handed in, but it was explained by the Chairman that all who promised to sign had not done so because of the hostile attitude taken up by the Pharmaceutical Society's officials, who had, without attempting to obtain accurate information, hastily proceeded to act upon false assumptions, and needlessly involved headquarters in a large and unnecessary expenditure of money. The meeting then terminated.

Blackburn. The prescriptions dispensed by panel chemists for July numbered 10,595. The number for June was 11,161, the average cost being 6.67*d*.

Lancashire.—Last week the Lancashire Prescription Bureau (which covers nine of the largest towns in the county and also Westmorland) discussed a suggested Formulary for its area, with a view to eliminating misinterpretations in dispensing and the abolition of prescribing by title from private formulæ, and for the convenience of practitioners without limiting their liberty in prescribing. After discussion, the matter was referred back to the Finance Committee for further consideration.—A return for 1916, just issued by the Bureau, shows that practitioners have, in many cases for the first time, secured a proportion of the "floating sixpence," the following amounts having been transferred from the Drug Fund to the Practitioners' Fund in respect of last year: Barrow, 186*l*. 8*s*. 10*d*.; Blackburn, 534*l*. 9*s*. 5*d*.; Blackpool, 319*l*. 10*s*. 5*d*.; Burnley, 816*l*. 15*s*. 10*d*.; Bury, 497*l*. 4*s*. 4*d*.; Preston, 462*l*. 5*s*. 8*d*. Another return deals with the prescriptions for the six months ended June last. This shows the total ingredient-prices to be 7,095*l*. (Bolton heading the list with 1,349*l*. and Westmorland being at the bottom with 211*l*.); dispensing-fees, 6,505*l*. 10*s*. (Bolton 1,265*l*. and Westmorland 160*l*.); total cost, 13,600*l*. 10*s*. The prescriptions dispensed numbered 543,946, the total of patients on doctors' lists being 368,226. The ingredient-price and dispensing-fee per prescription respectively averaged: In Barrow, 2.95*d*. and 2.78*d*.; Blackburn, 2.98*d*. and 2.93*d*.; Blackpool, 3.29*d*. and 2.95*d*.; Bolton, 3.06*d*. and 2.87*d*.; Burnley, 2.94*d*. and 2.89*d*.; Bury, 2.48*d*. and 2.94*d*.; Oldham, 3.45*d*. and 2.86*d*.; Preston, 2.70*d*. and 2.77*d*.; Rochdale, 3.90*d*. and 2.89*d*.; Westmorland, 3.82*d*. and 2.91*d*.

London Co.—The Pharmaceutical Committee met at Bank Chambers, High Holborn, W.C., on October 9, Mr. G. W. Hatfield in the chair, when the Secretary (Mr. G. A. Tocher) furnished statistics regarding the pricing of certain pills, which showed there was some inconsistency in the system followed, and it was decided to refer the matter to the Central Checking Bureau for investigation and report. Further consideration was given to Circular P.S. 42 concerning the Inquiries Section of the Central Checking Bureau, which provides a scheme for supplying information on Insurance matters direct to panel chemists, and after a protracted discussion the following resolution was carried:

"That while appreciating the suggestion of the Local Associations Executive, which should prove helpful to a large number of chemists on the panel, the Pharmaceutical Committee are of opinion that so far as London is concerned such inquiries should be made through the Secretary, who will continue to deal with them and collaborate with the Central Checking Bureau according to circumstances."

The question of rural areas, referred to in Circular P.S. 44, was left in the hands of the Secretary and the Committee's representative on the London Insurance Committee for action to be taken. The Secretary reported that the number of prescriptions for the month of July 1917 was 294,722, the total cost being 7,012*l*. 19*s*. 7*d*., and the average cost per prescription 5.71*d*. Allegations had been made as to inadequacy of service after 8 P.M. in three districts in London, and the Insurance Committee desired that the matter should be carefully considered by the Pharmaceutical Committee. Details of the complaints were given, and it was decided that the Secretary should, after further investigation of the cases, communicate with the Insurance Committee on the matter.

Sheffield.—The Insurance Committee met at the Town Hall, Mr. A. Neal presiding. The Medical Benefit Sub-Committee re-affirmed its recommendation that Mr. H. Antcliffe (Secretary of the Pharmaceutical Committee) be co-opted as a member of that Sub-Committee, and, in addition, Dr. A. W. Forrest (Secretary of the Medical War Committee), but the recommendation was not confirmed. The City Hospital Committee are undertaking the control of tuberculous cases, with the addition of three members of the Insurance Committee. Arrangements are being made for the treatment of invalided sailors and soldiers by panel doctors and chemists. Much dissatisfaction is felt by the medical men at the Medical Benefit credit of the Commissioners, which is 3,700*l*. less than in 1914 (56,895*l*. against 60,628*l*. in the earlier year), although the register contains approximately the same number of insured persons. Mr. J. T. Appleton gave notice of a motion to the effect that the Committee support the proposed alteration of the rural areas dispensing as suggested in Circular P.S. 39A, and the matter was referred to the Medical Benefit Sub-Committee. Payment of 642*l*. 2*s*. 7*d*. was ordered to be made to chemists for the balance of July and on account of August.

SCOTLAND.

October Drug-prices.

The Appendix for October shows alterations in the prices of thirty-one drugs. Twenty-eight are higher and three lower, while eighteen appliances have been increased. A meetiug of the Pharmaceutical Standing Committee (Scotland) will be held on October 24, when suggestions will be considered. Chemists who have not applied for sugar are advised to do so now, explaining the reason for delay. The prescribing and dispensing of proprietary articles continues to cause trouble. A well-known form of paraffinum molle is still being ordered and supplied under a proprietary name, which gives rise to much delay and inconvenience, and panel chemists are asked to do all in their power to eliminate such errors. Arrangements have been made for the supply of medicines to invalided sailors and soldiers. Such prescriptions should be marked "I.S." Of the total sums credited to the Invalided Soldiers' Medical Fund, the Commissioners agree to allocate two-ninths to the Drug Fund of each Insurance Committee for sailors or soldiers in the Committee's area, and should this amount prove insufficient the Commissioners will pay such further sums as are required to meet accounts.

Name	oz. s.	oz. d.	dr. s.	dr. d.
Acid. acet. sal. ...	2	5½	0	4½
Acid. benzoic. ...	4	0	0	7
Adeps benz. ...	0	2½	0	0½
Cocain. hyd. ...	—		9	4
Codeina	—		7	1½
Codein. phosph.	—		6	5
Ext. cannab. ind.	—		2	10
,, opii sic. ...	14	8	2	1½
,, opii liq. ...	0	9	0	1½
Hyd. iod. rub. ...	2	0	0	3½
Lin. camph. ...	0	3	0	0½
,, opii... ...	0	8	0	1½
Liq opii sed. ...	1	2	0	2
Ol. menth. pip....	1	11	0	3½
,, olivæ... ...	0	2	0	0½
Opium pulv. ...	7	6	1	1
Potas. permang.	1	8	0	3
Pulv. cret. arom. c. opio ...	0	5	0	1
Pulv. ipecac. co...	1	1	0	2
,, opii co ...	1	0½	0	2
Quin. hydroch. ...	6	9½	1	0
,, ,, acid.	7	11½	1	2
Resorcin... ...	10	6	1	6

Name	oz. s.	oz. d.	dr. s.	dr. d.
Sulphonal ...	5	7½	0	10
Syr. fer. phos. co.	0	2	0	0½
Tinct. opii ...	0	9½	0	1½
Ung. gall. c. opio	0	9½	0	1½
,, hyd. iod. rub.	0	4	0	1
,, pot. iod. ...	0	5	0	1
,, sulph. ...	0	3	0	0½
,, zinc. ox. ...	0	2½	0	0½

Crepe bandages (rolls to measure 6 yds. when fully extended). 2 in., 1*s*. 3*d*. each; 2½ in., 1*s*. 4½*d*. 3½ in., 1*s*. 11½*d*.

Muslin bandages (buttercloth), 2½ in., 2½*d*. each; 3 in., 3*d*. 4 in., 3½*d*.

Lints, unmedicated, 1 oz. 6*d*., 2 oz. 9*d*., 4 oz. 1*s*. 5½*d*., 8 oz. 2*s*. 9½*d*., 1 lb. 4*s*. 9*d*.; boric lint, 1 oz 4*d*., 2 oz. 6*d*., 4 oz. 11½*d*., 8 oz. 1*s*. 10*d*., 1 lb. 3*s*. 5*d*.

Cotton-wool, 1 oz., 3*d*.; larger quantities the same as September list.

Sal-alembroth wool, 3*s*. 1½*d*. per lb.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, October 11, 3 p.m.

Will subscribers please note that for the present the Trade Report closes for press somewhat earlier than usual?

There is little of interest to record in the chemical and drug markets this week, but the trend of values generally continues upwards. Pepper and cloves show a remarkable advance, chiefly due to speculation, and the position is somewhat inflated. Cassia lignea, coriander-seed, and mace are dearer; while cumin-seed is lower. Chemicals show but few changes; a further rise of 5*s*. has taken place in cream of tartar; citric and tartaric acids are unchanged. Vanillin still tends upwards; both formaldehyde and hexamine have a firmer tendency following on an advance in America. Coumarin and heliotropin have been dealt in at higher prices. In drugs, Matto Grosso ipecacuanha is held for an advance; lycopodium and menthol are rather easier. Among essential oils clove is again dearer in sympatny with the spice; star-anise and cassia both remain firm. Lemon oil is offered at lower rates on c.i.f. terms.

Higher	Firmer	Easier	Lower
Cassia lignea	Amyl salicylate	Celery-seed (c.i.f.)	Cumin-seed
Clove oil	Formaldehyde	Lycopodium	Lemon oil (c.i.f.)
Cloves	Hexamine	Menthol (spot)	Petrol
Coriander-seed	Ipecacuanha		Petroleum
Coumarin	Lime-juice		
Cream of tartar	Potash carb. (Russ.)		
Heliotropin			
Hen-yolk			
Linseed oil			
Mace			
Pepper			
Rosin			
Terebene			
Thymol			
Turpentine			
Vanillin			

The drug-auctions will be held next Thursday, October 18.

Cablegram.

New York, October 11.—Business in drugs is quiet. Menthol is dearer at $3.15 per lb. Peppermint oil in tins is steady at $3.50. Cascara sagrada is firmer at 13c. per lb., and copaiba is steady at 92½c.

Acetic Acid.—Dealings have been mostly suspended since our last, but a few licences have been granted. It is difficult to say how prices will be affected under the new conditions, but it looks as if dealers will have to be satisfied with moderate profits, and intermediate dealings may be expected to cease.

Agar-agar is quiet but firm at 2*s*. 3*d*. per lb. on the spot for No. 1 Kobe strip, and to arrive 2*s*. 2*d*. c.i.f. is quoted.

Albumen.—Sales of prime Chinese egg have been made at 3*s*. 6*d*. on the spot, with few sellers. *Hen yolk* has also been sold at from 95*s*. to 100*s*. per cwt. for Chinese with 2 per cent. boric acid. A number of forward contracts for shipment from China have been defaulted owing to lack of freight, and this makes the spot position more stringent.

Ammonia Sulphate.—The home trade price was automatically advanced 10*s*. per ton at the beginning of October, and now stands at 15*l*. 15*s*. for October-December, and 16*l*. 7*s*. 6*d*. for January-May 1918. Export licences are not being granted at the moment; the last price was about 24*l*. to 25*l*. per ton f.o.b.

Amyl Salicylate is about 1*s*. dearer at 14*s*. per lb. net.

Anise Oil, Star, remains firm but quiet at 4*s*. 6*d*. per lb. on the spot for "Red Ship" brand.

Arrowroot.—The sales include common manufacturing St. Vincent at 5¾*d*. per lb.

Arsenic.—Judging from the persistent advance for some time past there is no relief in the scarcity, and for Cornish from 110*l*. to 120*l*. per ton is quoted on the spot, which is about double the price ruling six months ago; business at these prices is naturally difficult.

Asafetida.—What little stock is on offer is of poor quality, and there is no prospect of arrivals taking place.

Aspirin is unchanged at 14*s*. 6*d*. to 15*s*. net on spot, and in view of the firmer position of salicylates the recent weakness in aspirin ought to disappear.

Benzoates.—Benzoate of soda and benzoic acid are obtainable on spot at 14*s*, per lb. The recent very low offers from the United States point to "bear" tactics on that side, and are regarded here as being "overdone." Unless such offers emanate from firms of good repute there is always the danger of default.

Bergamot Oil is quoted at from 20*s*. to 21*s*. per lb. on the spot for 38 to 39 per cent. esters.

Bromides.—The position is somewhat puzzling in view of the fact that only small parcels are coming forward from the United States. This applies especially to potash, and whether this scarcity will continue remains to be seen. As the season of larger consumption is approaching it is considered that there is reasonable ground for an upward tendency in prices, and there is plenty of room for a recovery, as present rates are not much above the pre-war prices. Potash is 6*s*. 3*d*. to 6*s*. 6*d*., sodium 2*s*. 6*d*. to 2*s*. 8*d*., and ammonium 4*s*. to 5*s*. net, as to seller.

Cadmium.—The larger importers quote 7*s*. 6*d*. per lb. for fair-sized parcels of the metal, and this represents the market, although there are still trivial stray lots going cheap round about 6*s*. 6*d*. Importations are more difficult, largely through permit-restrictions, although there is not much trouble in securing licences for war-work. Supplies come mostly from the United States for the present.

Calcium Carbide.—Since the Ministry of Munitions took possession of all the stocks of calcium carbide in the United Kingdom there is now no likelihood of the public obtaining supplies, as further imports to this country are precarious, and the whole of the stocks are required for direct war-purposes. This is in answer to several inquiries we have received from subscribers.

Calumba.—For good clean sound washed 130*s*. is wanted.

Camphor (Refined).—Japanese tablets, particularly ¼-oz. size, are extremely scarce on spot, while for October-December shipment from Japan 3*s*. 9*d*. c.i.f. has been paid. Slabs on spot are offered at from 3*s*. 3*d*. to 3*s*. 6*d*.

Cannabis Indica.—American, grown under the control of the United States Government, and of well-defined physiological activity, can be had from the importer at 4*s*. 10*d*. per lb.

Cassia Lignea is dearer, with spot sellers at 70*s*. per cwt., and to arrive 60*s*. c.i.f. has been paid.

Cassia Oil is dearer at 6*s*. per lb. on the spot for 80 to 85 per cent. c.a.

Celery-seed.—Only small supplies exist on spot, and to arrive 125*s*. per cwt. c.i.f. is quoted, which is a little easier in view of the fact that permits for exports from France are difficult to get.

Chamomiles are unchanged, with Belgian offering at from 350*s*. to 360*s*. per cwt. on the spot.

Chillies.—At auction 121 bags Japanese offered and sold partly without reserve at 65*s*. 6*d*. for good dark, and 63*s*. 6*d*. for yellow and reddish mixed.

Chiretta.—Sales have been made at from 1*s*. 1*d*. to 1*s*. 2*d*. per lb. on the spot.

Cloves.—The spot market on speculative business has been driven up a further 3*d*. per lb. to 2*s*. for fair Zanzibar, which has been paid. Penang on this basis would be worth about 3*s*.

Clove Oil.—Following on the advance in cloves, English distillers' price is now 16*s*. per lb., an advance of 2*s*.

Cocaine.—A notice on p. 49 relates to exports to Japan and China. It is anticipated that trading will now be of a restricted character, as the shipments to the above countries must be for medical purposes only. Supplies of coca-leaves in Europe, however, are gradually becoming exhausted, and it is doubtful when further shipments from Java will be made, so that a serious falling-off in production may offset the restricted exports. Meanwhile, we understand that several sales of Dutch make of cocaine

hydrochloride have been recently made for home consumption, and buyers have still an opportunity of filling their wants on very reasonable terms.

Coconut Oil.—There are buyers of Cochin at the maximum price of 70*s.*, *plus* 4*s.*

Cod-liver Oil.—The Bergen market remains without a quotation.

Colchicum-root can be had at 7*s.* 6*d.* per lb. on the spot.

Coriander-seed is dearer, 69*s.* per cwt. having been paid for fair new crop, and 70*s.* for good old-crop Morocco on the spot.

Coumarin.—Spot sales have been made at up to 105*s.* per lb., there having been a fair demand.

Cream of Tartar.—In view of the extreme shortage in supplies a further advance of 5*s.* has taken place, holders quoting 305*s.* per cwt. on the spot.

Cumin-seed is lower at 65*s.* per cwt. for fair sifted Morocco.

Ergot is quiet at from 2*s.* 3*d.* to 2*s.* 4*d.* per lb. on the spot for Russian or Spanish.

Formaldehyde is firmer at 125*s.* per cwt. on the spot, following on a higher market in America. Being still under Government control, it is only released parcels that can be dealt in.

Ginger.—Spot sellers of washed Cochin quote 68*s.* to 70*s.* per cwt. At auction 104 bags Sierra Leone sold at from 57*s.* to 58*s.* for fair; 198 bags fair limed Japanese were bought in at 47*s.*, as were 345 bags Cochin at 70*s.* for washed and 75*s.* for brown rough Calicut.

Glucose.—The demand has fallen off, and American liquid corn syrup is offering at 47*s.* per cwt. for October-November delivery, ex store.

Heliotropin.—Spot sales have been made at 30*s.* per lb., being dearer.

Hexamine.—In view of the advance in U.S.A. the spot price is firmer at 3*s.* 9*d.* per lb. net.

Honey.—Only small sales are reported since the auction, with sellers holding back for that event, which takes place next week.

Ipecacuanha.—No arrivals of consequence have taken place, and with gradually diminishing stocks the price of Matto Grosso continues to advance, several holders asking 12*s.* per lb., with the possibility of buying ordinary grey and wiry at 11*s.* 6*d.* The Crutched Friars warehouse stock at the end of September was placed at about 380 packages all told, but it is now much less.

Jalap testing 9-per-cent. resin is offered at 1*s.* 4*d.* to 1*s.* 5*d.* on the spot.

Lemon Oil is offered at the lower price of 3*s.* 6*d.* per lb. c.i.f. for a good brand; spot price is 4*s.* to 4*s.* 1*d.*

Lime-juice.—With a falling-off in imports and Government orders to be filled, holders ask an advance of 3*d.* per gal., from 3*s.* 3*d.* to 3*s.* 6*d.* being wanted for good.

Linseed Oil is active and dearer, London spot naked being 56*s.* 9*d.* in barrels and October delivery 60*s.* 3*d.*, old terms.

Liquorice-juice.—Some recent arrivals from the United States show very poor quality.

Liquorice-root continues very scarce, fair cut decorticated offering at 110*s.* and whole decorticated of very poor quality at 85*s.* per cwt. Prices are tending higher.

Lycopodium is rather easier and more freely offered at 5*s.* 9*d.* on the spot.

Mace is dearer, 19 cases Java in auction selling at 3*s.* 3*d.* per lb. for fair curly pale red, 3*s.* for ordinary, and 2*s.* 10*d.* for pickings.

Menthol is quiet at from 13*s.* 3*d.* to 13*s.* 6*d.* per lb. on the spot, as to brand.

Milk-sugar.—The chief holders ask 265*s.* for Dutch on the spot, with the possibility of obtaining a limited supply (not necessarily Dutch) at slightly less.

Mint Oil.—Sellers quote from 3*s.* 8*d.* to 3*s.* 9*d.* for Japanese dementholised on the spot.

Morphine.—The fact that no exports can be made to Japan and China except for medical purposes is unlikely to affect prices, as in the absence of stocks for export no business had been done for some time past. Home trade wants are being filled at 13*s.* 6*d.* for hydrochloride-powder.

Opium.—The London market remains unchanged, and in the absence of adequate stocks business is retail, a limited quantity of Persian offering at 65*s.* per lb.

Orange-peel.—Small sales of so-called Maltese machine-cut have been made at from 2*s.* 3*d.* to 2*s.* 6*d.* per lb.

Peppers have sharply advanced, the spot sales including fair *black* Singapore at from 1*s.* 0½*d.* to 1*s.* 2*d.*, with 1*s.* 2½*d.* asked at the close, and Tellicherry has been sold at from 1*s.* 1½*d.* to 1*s.* 3½*d.*, the value of Aleppy being 1*s.* 2½*d.* Singapore *white* on the spot has been sold at from 1*s.* 3*d.* to 1*s.* 5*d.*, and is now nominal at 1*s.* 5½*d.* Muntok has been sold at from 1*s.* 3¾*d.* to 1*s.* 6*d.* London pepper stocks are:

	1915 Tons	1916 Tons	1917 Tons
Black ...	1,504	2,003	2,397
White ...	932	1,898	2,074

Petrol.—As from October 10 motor-spirit is reduced in price 3*d.* per gal. retail. The Petroleum Board, in announcing the reduction, explains that it is due to the reduction in the war-risk insurances upon vessels and their cargoes by the Government, and is in no way connected with any change in the quantity of supplies. Contracts are not affected by the alteration.

Petroleum has been reduced 1*d.* per gal., which makes the price of ordinary refined American 1*s.* 7½*d.* and water-white 1*s.* 8½*d.* per gal.

Phenacetin of American make in limited quantity can be had at from 60*s.* to 65*s.* per lb. on the spot, as to seller.

Pimento is quiet, with spot sellers at 4*d.* per lb.

Potash Carbonate is dearer at from 135*s.* to 140*s.* per cwt. for Russian on the spot.

Quicksilver is very firm, but under present conditions, chiefly owing to the Government restrictions, prices still vary considerably according to the nature of the application made by buyers. For controlled material these applications, we understand, have to be submitted to the naval authorities, and there are but few cases where they are granted in full in the present state of supplies and shipping, as the husbanding of resources is imperative. For certified war-work the price asked by the chief importers is 20*l.* 10*s.* per bottle, but much higher figures continue to be mentioned as being paid in some quarters for uncontrolled metal. The official figures of imports are not considered very accurate.

Quinine.—Small lots are obtainable at from 2*s.* 10½*d.* to 2*s.* 11*d.* per oz. on the spot. Makers do not appear to be offering anything beyond October delivery.

Saccharin of 550 strength can be had at 350*s.* per lb. on the spot.

Saffron of finest B.P. quality is dearer at 43*s.* 6*d.* per lb. net.

Salicylates.—*Salicylic acid* is in a slightly firmer position, several of the English makers having sold out over the next two months, and others are unable to give delivery at present. Spot values of finest B.P. acid are from 6*s.* 9*d.* to 7*s.* *Sodium salicylate crystals* are scarce at the moment, but further supplies are on the way, the value of which will be about 9*s.* per lb.

Shellac shows little change, with a quiet demand, usual standard quality TN Orange closing at 232*s.* per cwt., and AC Garnet at 250*s.* Futures are dearer.

Soda Hyposulphite.—The excessive freights asked prevent imports from the United States, and stocks on spot are greatly depleted. A limited quantity of ordinary could be had at 25*l.* per ton, and pea-crystals are extremely scarce at 30*l.*

Soy.—Japanese is scarce on spot, business done chiefly applying to re-sale lots at up to 75*s.* per cwt., a considerable advance on previous prices.

Squill.—Fair white offer on the spot at 70*s.* per cwt.

Terebene.—Pure is dearer at from 1*s.* 9*d.* to 1*s.* 10*d.* per lb.

Terpineol is quoted at 2*s.* 7*d.* per lb. net on spot.

Thymol.—Increasing cost of raw material and competition for supplies in Spain has resulted in an advance in thymol from oil of thyme to 42*s.* 6*d.* per lb. net.

Turpentine early in the week was active at advancing prices, up to 73*s.* per cwt. being paid, closing with a quiet market on Wednesday evening at 72*s.* 6*d.* for spot, an advance of 1*s.* 9*d.* on the week.

Vanillin varies in price between 50*s.* and 55*s.* per lb.

Wax, Vegetable.—The sales include 300 cases for November-December shipment at 88*s.* per cwt. c.i.f. London.

Morphia and Cocaine for Japan.

The Director of the War Trade Department gives notice that applications for licences to export morphia or cocaine from this country to Japan cannot be considered unless they are accompanied by certificates obtained from the Japanese Home Office or from the Japanese authorities of the Kwantung leased territories, to the effect that the morphia or cocaine is for actual consumption in Japan or in Dairen and its vicinity, and is for medical purposes only.

Trade with Switzerland.

Mr. G. B. Beak, the Acting British Consul-General at Zurich, who is visiting this country, will be prepared to interview by appointment representatives of British firms at the offices of the Department of Commercial Intelligence, commencing on Monday, October 22. In order that

appointments may be satisfactorily arranged British firms who may desire to have an interview with Mr. Beak are requested to make their applications as soon as possible, and in any case not later than Thursday, October 18. Applications should be addressed to the Comptroller-General, Department of Commercial Intelligence, 73 Basinghall Street, London, E.C. 2, and the reference number, 46,273/17, should be quoted.

American Drug and Chemical Markets.

New York, September 18.

Trading remains active, with a number of important price changes, a few of which are summarised below:

Acetanilide has been advanced to 55 cents, and is very firm.

Acetphenetidin.—With rather larger supplies, prices are easier at from $11.50 to $12.00.

Alcohol (Wood), owing to the heavy export demand, has advanced 10c. per gal. to $1.10 to $1.12 for 95-per-cent., $1.15 to $.117 for 97-per-cent.; methyl acetone, $1.50 to $1.52.

Benzoates are again lower, soda benzoate offering at $1.60 to $1.90 per lb., and benzoic acid is now $2.20 to $2.25: competition is very keen.

Formaldehyde.—Export demand has fallen off, but market is rather firmer at 15½c. to 16c. per lb.

Opium is becoming extremely scarce, no arrivals taking place; from $29.00 to $30.00 is quoted, but even small parcels are hard to find.

Quicksilver is weaker at $110.00 per flask, with a light demand.

Saccharin.—A large business has been done, including sales early into next year at very high prices. Soluble has been sold at $40.00, and insoluble at $45.00 to $46.00 per lb.

Witch Hazel is very firm at 80c. in barrels.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the Ports of London and Liverpool:

To London.
(Sept. 29 to Oct. 3.)

Acetic acid, 60 cbys. 119 brls.
Antimony reg., 5 tons
Calumba, 99 bgs.
Cantharides, 7 cs.
Casein, 650*l.*
Chemical products, unrated, 4 bls. 73 cks.
Cobalt oxide, 10 brls.
Cream of tartar, 30 cks.
Cubebs, 61 bgs.
Dental goods, 2,347*l.*
Drugs and herbs, unrated, 18 bls.: belladonna leaves, 3 bls.: chamomiles, 4 bgs.: laurel-leaves, 10 bls.; red thyme, 61 bgs.; rose leaves, 2 bls.
Drugs unrated, 49*l.*
Dyestuffs, unrated, 89 pkgs.: gambier, 170 cs.; indigo, 10 cs.; myrabolans, 10,040 pkgs. 1,232 bgs. 16,833 pockets; tanners' bark, 410 tons
Ergot, 21 cs.
Ethyl chloride, 3 cs.
Formic acid, 36 cbys.
Gallic acid, 10 cks.
Gelatin, 477*l.*
Gentian, 206 bgs.
Glycerin, distilled, 72*l.*
Gums (cwt.): acacia, 17,950; olibanum, 710; tragacanth, 5
Ipecacuanha, 20 bgs.
Juniper berr., 23 bgs.
Male fern ext., 1 cs.
Milk sugar, 100 cs.
Mineral white, 36*l.*
Myrrh, 19 cwt.
Nuts and kernels (cwt.): arachis, 27,945; cashew, 154; palm, 200
Oils, essential, 6 drms. 61 cs. 1 pot 1 ck.; anise, star, 70 cs.; *synthetic* oils, 27 cs.
Oils, fixed: arachis, 500 cs. 343 brls.; castor, 750 cs. 313 brls. 60 cks.: coconut, unref., 258 pkgs. 183 pps. 72 drms. 30 pns. 11 hhds.; wood, 475*l.*
Opium, 10 cs.
Perfumery, unrated, 1,046*l.* toilet-powder, 818*l.*; water 41*l.*
Quinine, 9,000 oz.
Saltpetre, 6,340 cwt.
Sarsaparilla, 2 bls.
Seeds (bags): anise, 69; canary, 1,155; castor, 8,307; coriander, 633; cotton, 629 bgs. and 675 tons; dill, 420 fennel, 283 lin, 24,052; rape, 20,975
Senna, 80 bls.
Shellac, 420
Soda nitrate, 140 cwt.
Soda prussiate, 217 cwt.
Starches (cwt.): maize, 4,025; potato-flour, 1,945
Sticklac, 340 cwt.
Talc, 30*l.*
Tallow, 13,790 cwt.
Tannic acid, 5 cks.
Urodonal, 48 cs.
Valerianic acid, 3 cs.
Verdigris, 7 cks.
Wax, not described, 4 cs. 209 pkgs.
Wax, paraffin, 770 cwt.

To Liverpool.
(October 1 to 6.)

Acetic acid, 434 brls.
Ammon. phosphate, 344 brls.
Antim. sulphuret, 24 brls.
Barium hydrate, 18 cks.
Bromides: potash, 54 cs.; soda, 10 cs.
Calcium borate, 9,769 bgs.
Carbon black, 127 cs.
Cream of tartar, 20 brls. 39 cks.
Dental goods, 4,259*l.*
Drugs, unrated, 632 bgs. 872 pkgs. 330 cs. 1,387 bls. 4 brls. 10 kgs.
Dyestuffs, unrated, 113 pkgs. 59 brls. 126 cs. 22 kgs.; chestnut ext., 698 cks.; logwood ext., 50 brls.; quercitron ext., 200 brls.; tanning ext., 81 brls.
Formaldehyde, 33 brls.
Fullers' earth, 56 bls.
Galls, 250 cs.
Iodine, 48 brls. 288 kgs.
Liquorice-paste, 75 cs.
Magnesium metal, 18 cwt.
Nuts and kernels (bgs.): arachis, 257; babassu-kern., 2,014; copra, 3,985; palm kernels, 51,186
Oils, essential, unrated, 104 cs. 10 pkgs. 2 drms.
Oils, fixed: arachis, 200 cs.; cod-liver, 90 cks.; fish, 200 cs.; palm, 176 cks. 63 butts; rape, 450 cs.; soya, 1,000 cs.; whale, 21,432 brls.; wood, 112 cks. 100 brls.
Perfumery, toilet preps., 65 brls.
Potash muriate, 900 bgs.
Rosin, 10 pkgs. 54 cks. 7,092 brls.
Seeds: cotton, 82 sks. 1,300 bgs.; dari, 1,724 bgs.; lin, 597 bgs.
Soda caustic, 1,228 drms.
Soda nitrate, 74,300 bgs.
Soda salicylate, 7 cs.
Starches, 225*l.* 7,514 bgs. 1,000 cs.; dex-, trin. 860 bgs. farina 3,974 bgs. 1,270 sks. and 2,150*l.*
Surgical dressings, etc., 4,230*l.*
Talc, 850 bgs.; soapstone, 500 bgs.
Tallow, 19 cks.
Terpin hydrate, 20 cs.
Thorium and cerium nit., 10 cs.
Vanilla, 3 cs.
Wax, bees', 77 cs. 161 pkgs.
Wax, carnauba, 1,613 bgs. 100 cs.
Wax paraffin, 447 brls.
Wax, vegetable, 60 cs.
Wine-lees', 33 pkgs.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Sale of Carbolic Acid in Ireland.

Sir,—At the last meeting of the Council of the Pharmaceutical Society, Ireland, when speaking of the effect of the Order adding carbolic preparations to the list of substances under the Poisons and Pharmacy Act, 1908, I am reported as saying "that the effect of the new Order would be that preparations of carbolic acid need in future only be labelled 'Poisonous'" (see *C. & D.*, September 22, p. 39). What I did say was that they must be labelled "Poison," "Poisonous," and "Not to be taken." The same thing applies to oxalic acid, as both it and carbolic acid are in the second part of the schedule of the Sale of Poisons (Ireland) Act, 1870. The King and Queen's College of Physicians in Ireland may, with the approval of the Privy Council in Ireland, add any article to the schedule, but it has no power, as in England, of removing any article therefrom. So that we are in the anomalous position of having the substances in two schedules: under one they can only be sold by qualified persons, and under the other by anyone who has a poison-licence. Also that substances sold under the 1908 Act must be placed in containers rendered distinguishable by touch from ordinary containers, while such innocent things as liq. strychninæ, hydrocyanic acid, and all other poisons in the schedule of the Poisons Act, 1870, may be sold in a teacup as long as they are labelled poison and the other conditions of the Act are complied with! This is a very serious condition of things, and enough to make one exclaim with "John Bull," "Oh! for a business Government." May I add, and a Minister of Pharmacy (one with a knowledge of the subject). I note in your issue of September 29 that "Xrayser II." takes exception to my statement as to the use of the word poisonous. I cannot accept his dictum, as from a long experience of the chemists' business, extending over more than half a century, I speak of the word as I have known it used in this country by the public and the chemist alike, as having the nature of a poison, but not of such a virulent character. My opinion is shared by several of my colleagues and also by an eminent barrister well up in pharmacy, whose opinion I asked. I need hardly remind "Xrayser II." that in use many words have lost their original meaning, of which the word poison (literally potion or draught) is a good example. When the deputation from our Society was in London to oppose the extension of the Poisons and Pharmacy Act, 1908, to Ireland, its members tried to impress on the Government the fact that to use the word "poisonous" instead of "poison" on very potent poisons would create a wrong impression and lead to grave danger. Our opposition was of no avail. I am glad to note that "Xrayser II." agrees with me that this danger does now exist.

Yours faithfully,

Dublin, October 9. W. F. Wells.

Some Reflections.

Sir,—I see that the fact that the Institute of Chemistry has designs on the chemists' title has at last filtered through to the Pharmaceutical Society, although the *C. & D.* gave a series of articles about the matter some months ago. But Mr. White took good care to keep anything he had to say about the matter from the members, whose only duty is to pay up and be loyal. Isn't it time we had a retail chemist as President of the Pharmaceutical Society? Surely three or four years is too long for an academic chemist to be in a position which needs a complete and present-day knowledge of the drug-trade. I notice, too, that Mr. Glyn-Jones, the quondam democrat, is now a thoroughgoing reactionary, and objects to any outside body discussing matters which he thinks are too sacred for the ordinary people to touch. My mind goes back to the time when he was fighting the Bloomsbury Square clique tooth and nail, and now he is a member of the clique itself, if not one of the chiefs. Yet he doesn't like poor Skinner and Hines doing what he did years ago to his predecessors of the inner circle, and the two councillors mentioned are comparatively mild to Glyn-Jones of the old radical days. No: the times have changed. As a Government official he wants to prevent unnecessary trouble to another Department. Ah, well, I suppose we all change as we get older,

but I say "better a chemist in a small way of business than one whose ambition is to put his snout into the Government swill-tub." Don't spoil yourself, Glyn-Jones! You fought well for the craft for years; don't let the official position you have reached take away your natural sympathies with those who are trying to advance things by newer paths. Now you are the chief official at Bloomsbury think out some plan to put in action the dreams of your younger days. I am old and lethargic now, but I do admire the fire of young enthusiasts. If we only had twenty-one men on the Council of the Skinner and Hines type, the old and crusted ideas of the Pharmaceutical Society would soon be swept away, and we could start after the war on a new era of helping the chemists instead of suppressing any unusual manifestation of energy.

Yours truly,

Flagrante Bello. (131/42.)

Sir,—The report of the opening of the School of Pharmacy (*C. & D.*, October 6, p. 46) interested me on account of the portraits of the two chief actors in the afternoon's proceedings. Lieut.-Colonel Harrison, C.M.G., whose portrait shows that he has altered very much recently, has brought honour to pharmacy in the splendid work he has done for the War Office. The last time I met him he told me that when once the Germans got a taste of what was being prepared for them by British chemists they would not ask for more. This prediction is being verified to-day, and however tragic the situation is from the point of view of humanity, one cannot but rejoice that the Boche is being hoist with his own petard. The fact that Lieut.-Colonel Harrison enlisted as a private, and by sheer capacity and force of character he has raised himself to his present position and earned his C.M.G. by pure merit, is sufficient testimony to his force of character and attainments. Professor Greenish, the latest Hanbury medallist, appears to possess the secret of perennial youth, but I see he passed the "Minor" in 1876. I recall very well purchasing his first book on "Plant Analysis," and the interest, combined with awe, at the erudition of the translator, with which I made use of it. Then his classic book appeared on Materia Medica, which has been such a mine for other excavators; still later his (and Collin's) Anatomical Atlas, and lastly his invaluable book on Food and Drugs. The characteristics of Mr. Greenish's work are accuracy and solidity. He has not been a voluminous author like some of his medallist predecessors, but his work has been remarkably free from padding. His personal characteristics are the modesty with which he carries his encyclopædic knowledge, and the charm of a manner that makes every one feel at home in his company. His influence during the quarter of a century he has been at the Square has always been of the best, and his example has been a stimulus to hundreds of students who have passed through his classes. Excuse the space I have taken up, but I felt I could not let the circumstance of the juxtaposition of the portraits of these two men pass without adding a word of appreciation. Sincerely yours,

Ph.C. (90/10.)

The Consultative Committee.

Sir,—Your report on the motion to extend the administrative interest on the Pharmaceutical Council justifies the remark so often heard that despite an appearance of democratic control in the Pharmaceutical Society the rule is really oligarchic. The President and Vice-President act apparently first and the rest confirm. The stock formula of at least one councillor, I am told, is, "Leave it to the President." It may be a simple thing, but in reality it cuts at the very root of democratic control, and the astonishing thing is that councillors should shirk their responsibilities by such a cheap and easy method. To endorse a thing when it is done is not to gain administrative experience, and no one knows this better than the two councillors who performed the inglorious part of snuffing out Mr. Skinner. I believe that what Mr. Skinner was really up against was the Charter or by-laws or something else peculiar, but it never occurred to anyone to point it out. But perhaps he would like to remodel those by-laws and Charter; if so, may his shadow never grow less.

Sigma. (151/25.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Appreciations.

"No economy for a man in business to drop this most useful journal."—*T. J. G.* (118/3).

"I feel like a mariner without a compass if I do not receive the *C. & D.* each week, I can tell you. The market reports repay many times the cost of the subscription."—(117/17.)

"The *C. & D.* was a little late to-day, and I felt that it was impossible to do business without it. I find it the most interesting trade journal that I subscribe to. Wishing you every success."—(146/39.)

Lotio Calaminæ ex Sulphure (Walker's).

S. L. O. (136/29) asks for formula for this preparation, if it is not a proprietary article. Perhaps some reader will oblige?

Pulv. Pot. Sulph. Co.

Cytis (146/55) asks for the formula for pulv. pot. sulph. co., which is ordered in a prescription. Can any subscriber oblige with this?

Apprentices' Salary.

J. M. (148/5) writes: "Can you inform us what is now the usual salary for outdoor apprentices or what should be paid to a well-educated girl of seventeen and a-half during a three-years' apprenticeship?" [We shall be glad if subscribers will suggest a suitable salary.—Ed.]

A Problem for Solution.

W. F. S. (155/27) writes: "We have two customers. One has bought four 1-oz. bottles of chlorodyne a week for many years, the other an ounce a day for the like period. What I should like to know is, Am I justified in still supplying these customers? By suddenly cutting off the habit it would perhaps mean death to them. You would oblige by giving your opinion on this matter."

The Price of Cotton-wool and Bandages.

Mr. A. Timmins, dispensing chemist, 68 Murray Street, West Hartlepool, referring to the prices for cotton-wool and W.O.W. bandages in the October Drug Tariff of the National Health Insurance Commissioners, asks for information as to where he can obtain them wholesale at the prices named. A comparison he gives between the prices paid to Southall Bros. & Barclay, Ltd., and those of the Drug Tariff shows that each transaction in these appliances results in a substantial loss to the panel chemist.

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

Inquisitive (153/29).—How to Form a Limited Company is explained in the *C. & D. Diary*, 1917, p. 210.

M. W. L. (149/1).—Medicine-stamp Liability.—The liniment label renders the preparation liable to stamp-duty from the fact that it is recommended "for rheumatism lumbago, sciatica, neuralgia, sprains, and all bodily aches and pains," and also because you claim to be the only maker. It is possible also that the title you give to the liniment is a further ground of liability.

W. F. (149/58).—We regard the words "trade circulars" in the Business Names Registration Act as applying to all circulars, whether in the nature of price-lists or descriptive of the goods. There is no definition of "trade circulars" in the Act, and it is possible that a narrower interpretation might be put upon the term. It would be a matter of calling evidence as to what the trade regard as a circular.

Ajax (73/56) wishes to know how he should proceed to recover certain heirlooms from his stepmother. "Ajax's" father died in 1911, after making over all his property to his second wife. [It is very doubtful whether the articles in question are "heirlooms" in the legal sense, and unless the deceased disposed of them contrary to the terms of a settlement it is not likely that any proceedings against the stepmother would succeed. Without more complete knowledge of the circumstances it is, however, impossible to express a definite opinion, and we advise "Ajax" to consult a local solicitor.]

Wilts (148/11), who is a mineral-water manufacturer, delivered a quantity of mineral water to a customer without obtaining a deposit on the bottles. A distress was levied by the customer's landlord for rent in arrear, and the empty bottles belonging to "Wilts" were distrained. Can "Wilts" demand the return of the bottles, or must he buy them back? [Goods delivered to a person carrying on a trade to be "carried, wrought, worked up, or managed in the way of his trade" are exempt from distress. In our opinion, however, this exemption would not apply to the bottles in the circumstances stated, and "Wilts" cannot claim their return, his only remedy being an action for damages against the customer. On the other hand, "Wilts" cannot be compelled to buy back the bottles if he does not wish to do so.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Jehu (143/90).—The Scarcity of Rennet is due to the fact that calves must not be slaughtered, but allowed to grow into beef. Before the war large quantities of calves' stomachs were imported from Sweden, Denmark, Russia, and Poland, but these countries have ceased sending supplies to this country for various reasons. It is on account of this scarcity of rennet that pepsin is being used for cheese-making.

R. B. (143/80).—Size of Molecules.—It is difficult to convey accurate impressions regarding the size of molecules, but on the analogy of ultramicroscopic particles which are of the same order of magnitude as molecules some idea can be gathered. Meyer estimated a hydrogen molecule as 0.1 $\mu\mu$; Lobry de Bruyn that of colloidal gold as 1.7 $\mu\mu$; Jaeger that the molecule of chloroform measures 0.8 $\mu\mu$; the air molecule is 0.6 $\mu\mu$, or 6×10^{-18} per c.c. It should be explained that μ ("mu") is a thousandth of a millimetre (0.001 mm.), while $\mu\mu$ ("double mu") is a millionth of a millimetre (0.000001 mm.).

J. S. (149/53).—(1) Lung-tonic.—The following is the formula for which you ask:

Coltsfoot, Horehound, Linseed ... ... of each	1	oz.
Liquorice	2	oz.
Chloroform	1	oz.
Ether	1½	dr.
Aniseed oil	1½	dr.
Peppermint oil	6	drops
Oxymel of squill	64	oz.
Syrup of tolu	32	oz.
Tincture of capsicum	3	dr.
Treacle	64	oz.
Water	40	oz.

Make into a mixture.

(2) A methylated-spirit licence is not necessary for the sale of the methylated liniments the manufacture of which has been sanctioned by the Board of Customs and Excise (see *C. & D.*, April 24, 1915, p. 113). (3) The address of Mr. Benson Harries, Hon. Secretary of the Chemists' Dental Society, is 84 Commercial Road, Newport, Mon.

W. R. (150/39).—Supply of Methylated Spirit.—We are dealing with this editorially in this issue.

M. M. E. (149/43).—(1) Candidates for the Apothecaries' Assistant's Examination must be nineteen years of age, and a certificate to that effect must be signed by a parent, guardian, or nearest relative. (2) We do not undertake to analyse job lots of chemicals; you should submit the sample with full particulars to an analyst.

S. S. (146/9).—(1) Foul of the Foot in cattle is due to the presence of foreign matters between the digits, the toe growing too long, or to dirt. In high-dried or too closely bred animals the affection may be due to a tubercular diathesis. The preventive measure is to examine and clean the feet periodically and keep them of a normal shape by means of a rasp. If not of a tuberculous nature, the disease is not difficult to eradicate if any of the astringent applications referred to in "Veterinary Counter Practice" are used. (2) Non-conception in a herd is a serious condition to combat. Yohimbine is recommended, and has given good effects in smaller animals, but it is a costly medicament.

T. B. (150/6).—Hair-falling.—We are not acquainted with the name of a hair specialist who lives in your district. It seems that the epidemic of hair-falling which you say is prevalent would be best treated by the administration of hæmoglobin capsules. Hæmoglobin is given in 5-gr. capsules, the dose being two capsules two or three times daily.

T. O. O. (151/61).—The Drying of Crystals on a manufacturing scale is managed by passing them through a centrifruge, which abstracts all the uncombined water. If you employ heat, you will alter the quantity of water of crystallisation in the salt.

T. H. W. (151/17).—Ichthyol.—The manufacture of ichthyol was explained in the *C. & D.*, March 13, 1915, p 98, and August 28, 1915, p. 61, also in the *C. & D. Diary*, 1916, p. 200, where also will be found particulars of the process used in making tumenol. The patents for these substances have expired.

M. W. R. (149/7).—Salary of Women Dispensers.—You will see that Miss Forster stated in the *C. & D.*, October 6, p. 51, that the salary paid to Apothecaries' Hall dispensers is 35*s.* per week. In "How to Become a Dispenser" Miss Forster writes: "The salary may be anything from 30*s.* a week to 3*l.*, according to the size of the hospital and the position held by the dispenser. A resident appointment is only found at comparatively small hospitals. As everything is provided for the dispenser, a salary of from 35*l.* to 45*l.* is offered." In regard to the payment made by doctors to dispensers this is given as 1*l.* 1*s.* to 2*l.* 5*s.*, according to the time employed. The demand for women dispensers is greater now than ever on account of the war, but whether women will be able to hold their own when male competition starts again is a question upon which there is a difference of opinion.

S. M. (Barcelona) (148/51).—Paste for General Purposes:

1. Wheaten flour ... ... ½ lb.
   Alum ... ... 1 dr.
   Boric acid ... ... 1 dr.
   Water ... ... 10 oz.

   Make into a smooth paste and add—
   Acetic acid ... ... 1 oz.
   Water ... ... 20 oz.

   Mix. Heat with constant stirring until sufficiently gelatinous. When nearly cold add—
   Clove oil ... ... 20 drops

2. *For Photographic Purposes.*

   Use either starch-paste or the following:
   Dextrin ... ... 1 lb.
   Distilled water ... ... 25 oz.

   Mix and dissolve by heat, cool, and add—
   Clove oil ... ... 60 drops

   Pour into jars and allow to set.

R. C. H. (152/51).—Lead in Cream of Tartar.—The lead finds its way into cream of tartar from the vessels used in the manufacture. Glazed earthenware vessels or lead-lined wooden vessels equally yield up a minute proportion of lead to the compounds which are made in them. The lead exists as tartrate in the cream of tartar. Iron contamination is often returned by analysts as lead. The recommendation in "Squire" to store cream of tartar in well-stoppered bottles is due to the fact that the salt absorbs moisture rather freely.

B. M. (147/70).—Potassium Metasulphite as Preservative.—The quantity used varies from 1 to 2 oz. per cwt. of food. One of the advantages of the use of sulphur compounds in meat-preserving is that they not only act as antiseptics but produce an attractive red colour in the meat.

H. K. W. (152/2).—Cocaine Eye-drops.—The Home Office formula for cocaine eye-drops was printed in the *C. & D.*, May 12, p. 34. Chemists are allowed to supply this to a factory or workshop to which the Factory and Workshop Act, 1901, applies, without a prescription from a medical man. The supply must, however, be entered in the cocaine register.

Locosthetic (152/8).—Dispensing for Doctors.—The prices you name appear to yield a fair profit, especially if the average for different mixtures is taken. You probably noticed the flat-rate charges which were given in the *C. & D.*, September 22, p. 52, which are under the prices you are obtaining.

Retrospect of Fifty Years Ago.

[Reprinted from "The Chemist and Druggist," Oct. 15, 1867.

Assistants' Salaries.

The following particulars are taken from an advertisement of Edward Herring & Co.:

Salaries required by assistants *in country or London*: As Senior (21), indoor 25*l.*, outdoor 50*l.*: Junior (21), indoor 30*l.*, outdoor 58*l.*; Senior (28), indoor 40*l.*, outdoor 65*l.* *In country only*: Senior (25), indoor 35*l.*, outdoor 70*l.*; Junior (20), indoor 20*l.*; Junior (20), outdoor 60*l.* *In London only*: Junior (20), indoor 20*l.*, outdoor 65*l.*; Senior (29), indoor 50*l.*; outdoor 100*l.*

EMETINE Hydrochloride, Hydrobromide.

Strychnine, Theobromine, Nicotine & Quinine Salts,
Cinchona Barks & Alkaloids.

IODINE & BROMINE PREPARATIONS
Mercurials. Refined Camphor.

MORPHINE & CODEINE Alkaloids & Salts.
Opium & all Opium Derivatives.

Telegrams: "Whiffen London."
Telephones: 254, 255 Battersea.

WHIFFEN & SONS, LTD.
BATTERSEA, LONDON, S.W.

Codes for telegraphing: A B C; Lieber's.

MORE HELP FOR
ZEPTO
SELLERS

GET THE
"New Coin"
DISPLAY IN NOW

It's another "business winner," and goes out with all orders for 6 dozen pencils on the same generous terms. We hope you will all give it a trial. We guarantee no disappointment in results.

CHRISTY,
Old Swan Lane, E.C. 4.

COSTS ONLY
4/6
PER DOZEN

ON P.A.T.A.
7½d.
PER PENCIL

[*See also what we say about Perro, page 8.*]

LARGE DEMAND

OWING TO

SCARCITY of SUGAR

All Descriptions.

GET SAMPLES AND PRICES.

HONEY

All Descriptions.

GET SAMPLES AND PRICES.

EVANS SONS LESCHER & WEBB

LIMITED

LIVERPOOL & LONDON

AND

NEW YORK.

MADERO Bros.

(INCORPORATED)

Cable Address: - "MADEROBRO."

Executive Offices:
115 BROADWAY.

Chemical Offices:
98-100 JOHN STREET.

The Seal of Quality.

New York, U.S.A.

WE SOLICIT OFFERS OF OVERSEAS PRODUCTS.

CABLE OR LETTER INQUIRIES RECEIVE PROMPT ATTENTION.

WE OFFER

Heavy Chemicals:

CAUSTIC SODA — CHLORIDE OF LIME
BLUE VITRIOL — CARBOLIC ACID

Medicinal Chemicals:

ACETANILID — SODA BENZOATE
ACID BENZOIC — SODA SALICYLATE
BENZONAPHTHOL — PHENOLPHTHALEIN
RESORCIN — SACCHARINE
GUAIACOL CARBONATE

Crude Drugs:

ALOES JALAP SENEGA HYDRASTIS
SCAMMONY SARSAPARILLA CASCARA

Oils, Waxes and Greases:

PETROLATUM BEESWAX PARAFFINS

Colour-Dyestuffs and Tanning Extracts:

DIRECT ACID & BASIC ANILINE COLOURS
NATURAL DYESTUFFS & EXTRACTS for TANNERS

As Manufacturers we offer, spot or contract,

ACETPHENETIDIN and SALICYLIC ACID

All other Chemicals and Drugs obtainable in America.

SANDALWOOD OIL. WHIFFEN & SONS, Ltd., are Sole Consignees of the

MYSORE GOVERNMENT Standard Product.

Complies with requirements of all Pharmacopœias.

Samples can be had upon application to **WHIFFEN & SONS, LTD.,** Lombard Road, Battersea, S.W. 11.

Telephone—254 and 255 BATTERSEA.

PATTINSON'S

MAGNESIA

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 6 Lloyd's Avenue, London, E.C.

ESTABLISHED 1772.

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity by

Messrs. THOMAS & WILLIAM HENRY, 11 East Street, St. Peter's, Manchester.

And is sold in Bottles, authenticated by a Government Stamp, bearing their name. Trade Mark, "Henry's Calcined Magnesia."

PRICE 4s. 6d. or 2s. 9d

NEW YORK: Messrs. SCHIEFFELIN & CO., William Street. PARIS: Messrs. ROBERTS & CO., 5 Rue de la Paix.

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

WENGERS, LTD.,

ETRURIA, STOKE-ON-TRENT.

MANUFACTURERS OF

Ceramic Colours & Chemicals.

FOR POTTERS, GLASSMAKERS, GLAZED BRICK MANUFACTURERS, & ENAMELLERS ON METALS.

OXIDES OF ANTIMONY, ARSENIC, CHROME, COBALT, COPPER, IRON, MANGANESE, NICKEL, SMALTS, TIN, TITANIUM, URANIUM, ZINC, &c.

Raw Materials Waterground Bone, Felspar, Flint, Fluorspar, Quartz, Stone, Whiting, &c. China Clay and Ball Clay. Prepared Bodies. Ground Carbonate and Sulphate of Barytes. Cadmium Sulphide. Selenium Metal. Selenate and Selenite of Soda. Boracic Acid. Borax. Bichromates of Potash and Soda.

PRICE LIST AND SAMPLES ON DEMAND.

STOCK.

(WHOLESALE ONLY.)

PRECIPITATED CHALK, ANHYDROUS SULPHITE OF SODA, BICHROMATE SODA. CARBONATE POTASH

And other Chemicals.

PETRI BROTHERS,

39 LIME STREET - - LONDON, E.C. 3.

The D. D. D. Co., Ltd., manufacturers and proprietors of the D. D. D. PRESCRIPTION, announce that as and from

OCTOBER 1, 1917

the retail price to the public of our 2/6 bottle will be advanced to 2/9.

The great increase in cost of materials used in the manufacture of D. D. D. PRESCRIPTION, as well as of bottles, cartons, &c., necessitates this slight advance in price.

The wholesale price will be increased from 23/6 to 25/6 per dozen.

Members of the trade will please note that the M. R. P. of the 2/9 bottle will be 2/8.

New price labels to affix to stock in hand will be sent on application to

D.D.D. Co., Ltd.

6 Wine Office Court, Fleet St., London, E.C. 4.

THE ANGLO-FRENCH DRUG CO., Ltd.

Gamage Building, Holborn, London, E.C.

Telephone: HOLBORN 1311. (Late M. BRESILLON & CO.) Telegrams: "AMPSALVAS."

LITERATURE AND PRICE LISTS ON REQUEST.

PHARMACEUTICAL PREPARATIONS.

AMPSALVS.
For the instantaneous production of "914."
Simple, safe and economical.

Phenacetin is now Restricted.
CRYOGENINE.
A general Antipyretic. Powerful Analgesic.
Supersedes ANTIPYRIN, PHENACETIN, and PYRAMIDON.

HECTINE.
Anti-Syphilitic. Low Arsenic percentage. Good results in intractable Syphilis. Injection; also in Pills.

HECTARGYRE.
Combined Arsenic and Mercury for treatment of Syphilis. Injection; also in Pills.

COLLOIDS.
(ELECTRIC) Gold, Platinum, Silver, Selenium, Copper, Iodargol and Iodeol (Iodine).

BIOSULFOL.
Assimilable Sulphur Colloid.

MERSALV.
A fine mercurial cream. 10 per cent. metallic mercury.

SUPSALVS.
Stable Suppositories of "606." Very simple, effective, harmless.

CUPRASE.
Specially prepared Colloid Copper for treatment of CANCER.

CYTO-SERUM.
Intensive Strychno-Arsenical Medication (subcutaneous), Syphilis, Tuberculosis, &c.

Quinine Salts are now Restricted.
KINECTINE.
A Quinine Salt of Hectine. Prophylactive and Curative for Hay Fever, Rhinitis, Influenza. In Tablets.

HERMOPHENYL.
(LUMIÈRE)
Sodium Mercuro-phenyl Disulphonate. Antiseptic, Antisyphilitic, of low Toxicity.
Tablets for solution: Soap, Ampoules, Pills, etc.

URASEPTINE.
A powerful urinary antiseptic and uric acid eliminator.

SERUMS.
of the Merieux Institute in "Inalter Vial" keep indefinitely. For Human and Veterinary use.

RHEANTINE.
Antigonococcic inoculation by the Gastro-Intestinal tract. In spherules.

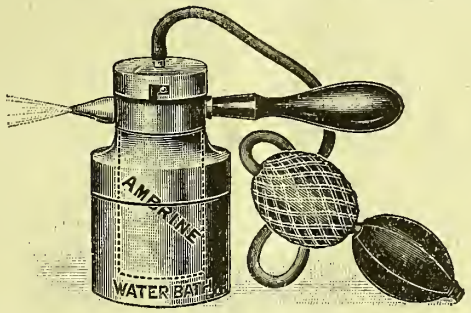
A Great Advance in the Treatment of **BURNS**—Slight or Severe.

AMBRINE

Ambrine is *the Only Authorised Preparation* of Dr. Barthe de Sandfort. We are compelled to state this, as there are various imitations.

Ambrine forms a dressing which INSTANTLY alleviates pain, promotes rapid healing, forms a sure protection against infection of the wound, can be removed without pain, hæmorrhage, or injury to the newly formed tissues. The healing leaves no scars or contractions.

***INDICATIONS.*—Burns, Chilblains, Varicose Ulcers, Neuralgia, Sciatica, Neuritis, Phlebitis, Gout, Rheumatism, &c.**



May be applied with a camel-hair brush, but our specially designed spray greatly facilitates the application of AMBRINE.

WHOLESALE PRICES (Unstamped).

Packets (about 1½ oz.)	... ...	6/9 per doz.
" (" 4½ ")	... ...	1/9 per pkt.
By weight, for Dispensing (not less than 1 lb.)	... ...	4/9 per lb.

Special Spray, 24/-

Rational Treatment of Constipation.
By the double action of secretion and peristalsis.

OPOLAXYL

Opolaxyl is a combination of the secretions of the liver (biliary) pancreas and intestines with vegetable extracts of a non-drastic nature.

It combines all the secretions to correspond to nature's therapy, and promotes a flow of bile and glycogen.

It is a normal regulator of the gastro-intestinal functions, consequently it improves the metabolic changes of the entire organism.

Opolaxyl does not lose its efficacy by prolonged use, its effect is gentle and constant, with the least irritation. *It is not merely purgative,* it stimulates the defective organs and revives the normal equilibrium, it has a lasting effect by reason of it rebuilding the organs, thus correcting diminutional function.

Opolaxyl is put up in small size tabular form, and should be swallowed without crunching at bedtime or before breakfast. In bottles of 50 tablets.

Dose: For obstinate constipation 2 or 3 tablets, afterwards one tablet every three or four days for a month

DRUGS AND CHEMICALS.

Extracts
- " Liquid
- " Soft
- " Dry

Glycerophosphates
- " Calcii
- " Ferri
- " Magnesii
- " Manganesii
- " Sodii
- " Potassii

Acid Salicylic
Sodium Salicylate
Methyl Salicylate
Salol
Phenacetin
Aspirin
Sodium Sulphite, cryst.
" Sulphite anhydr.
Acid Pyrogallic
Acid Benzoic
Saccharine
Arecoline Hydrobrom.
Atropine Sulphate
Eserine Salicylate
Eserine Sulphate
Homatropine Hydrobrom.
Hyoscinae Hydrobrom.
Valerianates (various)
Coumarin
Paraphenylenediamine

etc. etc.

Inquiries Solicited for large and small quantities.

Influenza Serobacterin Mulford

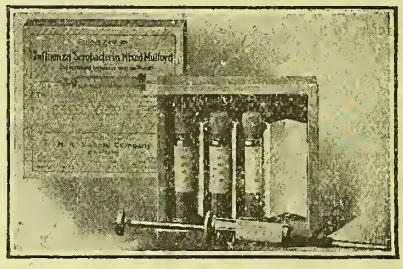
in the

Prevention and Treatment of Colds.

Colds are generally caused by attacks upon the mucous membranes of the respiratory passages, due to lowered resistance or to special virulency upon the part of the attacking bacteria.

Infection is Overcome by the production of antibacterial substances (antibodies). When the affected tissues are unable to produce antibodies sufficient to repel invasion, other parts of the body may be stimulated to produce the necessary antibodies by injecting killed bacteria corresponding to those causing the cold.

Influenza Serobacterin Mulford is used in checking epidemics of colds, influenza and catarrhal inflammations of the respiratory passages, in the prophylaxis and treatment of acute and chronic catarrhal conditions of the nose, throat and respiratory passages, especially when complicated with influenza. It contains killed bacteria (obtained from many cases of colds) treated with immune serum corresponding to each type of bacteria, to render them more active in producing immunity and to reduce local or general reactions.



Supplied in packages of four graduated aseptic glass syringes (A, B, C, D), and in single syringes, D strength, containing killed sensitized bacteria as follows :—

	A	B	C	D
B. Influenzæ	125	250	500	1000 million
Streptococci	125	250	500	1000 million
Pneumococci	125	250	500	1000 million
M. catarrhalis (group)	125	250	500	1000 million
Staphylococci	250	500	1000	2000 million

Per package of 4 syringes (A, B, C, D) ... 16/6
Single syringe, D strength ... 6/3

Correspondence invited on Tetanus Antitoxin, Antidysenteric Serum, Typho-Bacterin (Typhoid Vaccine), Cholera Bacterin (Cholera Vaccine), for immunization of troops and nurses on active service.

AWARDED THE GOLD MEDAL FOR BIOLOGICAL PRODUCTS
at the Seventeenth International Congress of Medicine, London, August 1913.

H. K. MULFORD COMPANY, ***Manufacturing & Biological Chemists.***
PHILADELPHIA & GLENOLDEN, U.S.A. LONDON—119 High Holborn, W.C.
Distributing Agents for Great Britain: THOMAS CHRISTY & CO., Old Swan Lane, London, E.C.

Salicylates.

OUR works in America having enlarged their Plant, are prepared to book orders for prompt and forward delivery, for

Salicylic Acid, Soda Salicylate, Acetyl-Salicylic Acid, Salol.

We also offer for prompt shipment from New York:

Acetic Anhydride, Resorcin, Phenacetin, Beta-Naphthol, Benzonaphthol, Phenolphthalein, Bromides, Benzoic Acid ex Toluol, Soda Benzoate, Xeroform.

We have the following, SPOT:

Albargin,
Migrainine,
Tannine Albuminate,
Silver Colloidale,
Sulfothyol, commercial,
Soda Benzoate,
Aspirin,
Urea, pure,
Acetic Anhydride.

V. BERG & SONS
36 MARK LANE, LONDON, E.C.3.
Established 1871. *Telephone: City 8203.*

Rollin Chemical Co. Inc.

CHARLESTON, W.Va., U.S.A.

BARIUM BINOXIDE (for manufacture of Hydrogen Peroxide)

PRECIPITATED SULPHATE OF BARIUM (Blanc Fixe, Dry).

BARIUM CHLORIDE.

BARIUM NITRATE.

BARIUM CARBONATE, 99%

SODIUM SULPHIDE FUSED, 60%

General Agents:

NATIONAL ANILINE AND CHEMICAL CO., Incorporated,
244 Madison Ave., New York, U.S.A.

SULPHATE OF COPPER

(CRYSTALS & GRANULATED).

HIGHEST PURITY 99/100%
Guaranteed.

THE
MOND NICKEL COMPANY,
LIMITED,
39 VICTORIA STREET, LONDON, S.W.
ALSO MAKERS OF
NICKEL, NICKEL SULPHATE,
And NICKEL AMMONIUM SULPHATE.

ATKINSON & BARKER'S
ROYAL
INFANT'S PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON,
11 Russell Street, C.-on-M., MANCHESTER.

DOES NOT CONTAIN any SCHEDULED POISON.

MONSANTO CHEMICAL WORKS
ST. LOUIS, MO., U.S.A.

MANUFACTURERS OF

ACETANILID
ACETPHENETIDIN (Phenacetin)
ACETYL-SALICYLIC ACID (Aspirin)
CAFFEINE (Pure Alkaloid)
CHLORAL HYDRATE
PHENOLPHTHALEIN
CARBOLIC ACID CRYSTALS
COUMARIN
SACCHARIN
SALICYLIC ACID
SALICYLATE OF SODA
SALOL
VANILLIN
GLYCEROPHOSPHATE of SODIUM (Pure Crystals and Powdered)
GLYCEROPHOSPHATE of SODIUM (Solution 75%)
GLYCEROPHOSPHATE OF POTASSIUM 75%

Also GLYCEROPHOSPHATES of IRON, MANGANESE, MAGNESIUM, etc.

New York Branch: Platt and Pearl Sts.

We Specialise in
and invite inquiries for
AJOWAN OIL, BELLADONNA LEAF and ROOT, CARBONATE OF POTASH 96/97%, COSTUS ROOT, CHAULMOOGRA OIL, guaranteed "TARAKTOGENOS," EUPHORBIA PILULIFERA, NUX VOMICA, PODOPHYLLUM EMODI ROOT, PYROLUSITE, SANDALWOOD OIL, SODIUM GYNOCARDATE, THYMOL, TURMERIC and other INDIAN DRUGS.

SMITH, STANISTREET and Co.
CALCUTTA.

TELEPHONE—HOLBORN 4894

S. TOLKOWSKY,

HALTON HOUSE, 20 HOLBORN, LONDON, E.C. 1.

London Representative of I. L. GOLDBERG, Petrograd, Wilna, Moscow, Odessa.

The exclusive exporter of **SANTONINE** from Russia to the whole world.

Inquiries solicited also for

RUSSIAN CRUDE DRUGS

Wormseed (Semen Contra)
Elderflowers (Flores Sambuci)
Lycopodium
Aniseed
Ergot of Rye

Liquorice Root
Calamus Root
Boletus Cervinus
Gum Galbanum
„ Ammoniac
„ Tragacanth
Frangula Bark

Cantharides
Isinglass: Salianski Osietr Samovy
Blood Albumine
Musk Root
Anise Oil
Soap Root

STOCKS IN LONDON.

From The Research Laboratory of The Royal College of Physicians, Edinburgh.

Standardised

Veterinary Tuberculins

For Stockbreeders, Dairymen, Farmers, etc.

To be had from

DUNCAN, FLOCKHART & Co., Edinburgh and London.

ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.

Sole Manufacturers of

JUBOL

RE-EDUCATION OF THE INTESTINE.

Constipation, Enteritis, Hæmorrhoids, Indigestion, Skin Blemishes, &c.

Price 5/- per box.

GLOBÉOL

POWERFUL BLOOD TONIC.

Anæmia, Nervous Exhaustion, General Debility, Tuberculosis Convalescence, etc.

Price 5/- per bottle.

PAGÉOL

POWERFUL URINARY ANTISEPTIC.

Cystitis, Prostatitis, Catarrh of the Bladder, Renal Tuberculosis, etc., etc.

Price 5/- and 11/- per box.

JUBOLITOIRES

SCIENTIFIC SUPPOSITORIES

For Hæmorrhoids, Rectitis, Anal Fistula, etc. Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

URODONAL

POWERFUL URIC ACID SOLVENT.

Rheumatism, Gout, Arterio-sclerosis, Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.

Price 5/- and 12/- per bottle.

VAMIANINE

New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.

Price 11/- per bottle.

SINUBÉRASE

SCIENTIFIC PREPARATION OF LACTIC FERMENTS.

Indicated in Intestinal Disorders, Dysentry, Diarrhœa, Dyspepsia, Enteritis, Typhoid, Skin Eruptions, etc., etc.

Price 5/- per bottle.

FANDORINE

Metrorrhagia, Dysmenorrhœa and Lactation, Pains, etc. etc.

Price 5/- and 11/- per bottle.

GYRALDOSE.

Antiseptic for local Gynæcological use.

Price 4/- per box (powder)
" 5/- " (tablets)

FILUDINE

SPECIFIC FOR THE LIVER.

Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis. etc.

Price 11/- per bottle.

Heppells

BRITISH AND COLONIAL AGENTS—
Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.
Telegrams: "URODONAL LONDON." Telephone: Regent 192.
Stocked by all Wholesalers. Now being largely advertised.

T. & H. SMITH LTD

MANUFACTURERS OF

MORPHINE, CODEINE

AND ALL OPIUM PRODUCTS

SCAMMONY RESIN

SALICIN	CAFFEINE	ALOIN
STRYCHNINE	EMETINE	CAPSICIN
CANTHARIDIN	CHLOROFORM	GINGERIN
JALAP RESIN	THEOBROMINE	PODOPHYLLIN

Blandfield Works, EDINBURGH. *25 Christopher Street, LONDON, E.C.* *37 Washington Street, GLASGOW.*

THEY MAKE YOUR DRAWINGS JUMP UP

THE LINE THAT CUSTOMERS ARE ENTHUSIASTIC ABOUT

RED BAND

BISMUTHATED MAGNESIA

SOLD IN TWO SIZES.

3D. Cost 24/- per gross, carr. paid. | Cost 47/- per gross. carr. paid. 6D.

ONE DOZEN BONUS TO EACH GROSS.

Neat Show Boxes. Powerful Showcards.

We solicit inquiries from Retailers for both lines.

WHOLESALERS WANTED.
SPLEND D MARGIN GIVEN.

OUR NEW LINE.

A SKILFUL COMBINATION FOR THE RELIEF OF RHEUMATISM, SCIATICA, &c.

"Natral Salts."

THE POPULAR REMEDY.

PER 7½D. BOX.

COST YOU 4/6 PER DOZEN.
BONUS OF 12 BOXES PER GROSS.

Retailers declare it to be the smartest line they have handled.

OUR SHOWCARDS ARE IT!

RED BAND CHEMICAL CO., 186 Dalry Road, EDINBURGH.

BEECHAM'S PILLS.

WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size ... ... 10s. 6d. per doz. net.
3s. 0d. ,, ... 26s. 6d. ,, ,,
5s. 0d. { new size ... ... 50s. 0d. ,, ,,
{ contains double the quantity of 3/- box.

Beecham's Cough Pills:

1s. 3d. size ... ... 10s. 6d. per doz. net.
3s. 0d. ,, ... 26s. 6d. ,, ,,

Beecham's Tooth Paste:

IN COLLAPSIBLE TUBES:
1s. 0d. size ... ... 7s. 6d. per doz. net.

Orders: Minimum quantity £5 value—approximately. | *Packages FREE. Carriage PAID.*

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Parr's Bank, Ld., St. Helens."

N.B.—Prices quoted herewith are for preparations according to the New Pharmacopœia, 1914.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below:

N.B.—We would draw attention to the fact that all prices quoted herein are subject to alteration without notice, and that where stocks are limited preference is always given to our regular customers.

Orris, English Ground, 1 cwt. @ 102/6 cwt.; 7 lbs. @ 1/- lb.
Oss. Sepiæ Pulv., 1 cwt. @ 70/-; 7 lbs. @ 9d. lb.
Otto Rosæ, finest, 1 oz. @ 72/- oz.; No. 2, 1 oz. @ 45/- oz.
Oxymel Scillæ, B.P., 1 cwt. @ 103/- cwt.; *7 lbs. @ 1/- lb.

Papain, 1-80, 1 oz. @ 3/- oz.
Paraffinum Durum, B.P., 2 cwt. @ 8½d. lb.; 1 cwt. @ 9d. lb.; 56 lbs. @ 10d. lb.; 7 lbs. @ 10½d. lb.; Molle Flav., B.P., 3½ cwt. @ 50/- cwt.; 1 cwt. @ 56/- cwt.; 28 lbs. @ 6½d. lb.; 7 lbs. @ 7½d. lb.; Alb. B.P., 3½ cwt. @ 92/- cwt.; 28 lbs. @ 1/- lb.
Paraldehyde, B.P., 1 lb. @ 16/3 lb.
Pepsin, B.P., 1 lb. @ 16/6 lb.
Phenacetin, P.B., pulv., 1 lb. @ 85/- lb.
Phenazone, P.B., 1 lb. @ 64/- lb.
Phenolphthalein, 1 lb. @ 80/- lb.
Pix Burgund., Druggists', 1½ cwt. @ 38/- cwt.; 7 lbs. @ 6d. lb.
Plumbi Acetas, Druggists', 1 cwt. @ 123/- cwt.; 7 lbs. @ 1/2 lb.; Powder, 1½d. lb. extra.
Podophyll. Resina, P.B., 1 lb. @ 17/6 lb.
Potassa Caustica Sticks, P.B., 1 lb. Bots. @ 14/- lb.
Potass. Acetas. Gran., P.B., 28 lbs. @ 3/11 lb.; 7 lbs. @ 4/1 lb.
Potass. Bicarb. Pulv., 7 lbs. @ 2/4 lb.
Potass. Brom. P.B., 7 lbs. @ 7/3 lb.
Potass. Chlor. Pulv., 7 lbs. @ 3/2 lb.
Potass. Cit. B.P., 7 lbs. @ 4/8 lb.
Potass. Cyanidum, 98%, 7 lbs. @ 3/9 lb.
Potass. Iod., P.B., 14 lbs. @ 12/10 lb.; 3 lbs. @ 13/3 lb.
Potass. Metabisulph., 7 lbs. @ 3/3 lb.
Potass. Permang. Cryst., 2 lbs. @ 16/- lb.
Potass. Prussias Flav., 7 lbs. @ 5/6 lb.
Pulv. Cretæ Arom. P.B., 14 lbs. @ 1/2 lb.; c. Opio, B.P., 7 lbs. @ 3/6 lb.
Pulv. Glycyrrh. Co. B.P. (Green), English Ground, 56 lbs. @ 114/- cwt.
Pulv. Ipecac. Comp. P.B., 1 lb. @ 9/6 lb.
,, Jalap Comp. P.B., 1 lb. @ 3/- lb.
,, Rhei Comp. P.B., 1 lb. @ 2/8 lb.

Quassia Chips, 1 cwt. @ 47/- cwt.; 28 lbs. @ 5½d. lb.
Quinine Bisulph., 10 oz. @ oz.
Quinine Ethyl Carb. (Tasteless), 10 oz. @ oz.
Quinine Hydrobromas, B.P., 25 oz. @ 4/2 oz.; 10 oz. @ 4/3 oz.
Quinine Hydrochlor., B.P., 25 oz. @ 4/3 oz.; 10 oz. @ 4/4 oz.
Quininæ Sulph., B.P., 100 oz. @ 3/2 oz.; 25 oz. @ 3/4 oz.; 10 oz. @ 3/5 oz.

Rad. Gentian, English Ground, 1 cwt. @ 118/- cwt.; 7 lbs. @ 1/2 lb.
Rad. Glycyrrh., English Ground, 1 cwt. @ 72/6 cwt.; 7 lbs. @ 9d. lb.
Rad. Ipecac. Rio., 1 lb. @ 12/6.
Rad. Jalap, English Ground, 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/- lb.
Rad. Rhei., E.I., English Ground, 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Rad. Rhei, E.I. Trimmed, 7 lbs. @ 5/3 lb.; 1 lb. @ 5/9 lb.
Resorcin, B.P. 1 lb. @ lb.

Saccharine, 7 lbs. @ lb.; ·550 or ·500, 1 lb. @ lb.
Sacchar. Ust., 1 cwt. @ 85/- cwt.; 10 lbs. @ 10½d. lb.
Saffron. Valentia, B.P., 7 lbs. @ 44/- lb.; 1 lb. @ 46/- lb.; 1 oz. @ 3/2 oz.
Sal. Acetos., 7 lbs. @ 2/10 lb.
Salicinum, B.P., 1 lb. @ 28/- lb.
Salol, B.P., 1 lb. @ 11/6 lb.
Sang. Draconis, pulv., English Ground, 7 lbs. @ 3/2 lb.
Santoninum, P.B., 16 oz. @ 160/- lb.
Sapo Cast. Alb., 2 cwt. @ cwt.; 7 lbs. @ 11d. lb.; pulv., 1 cwt. @ 150/- cwt.; 56 lbs. @ 1/4½ lb.; 7 lbs. @ 1/5½ lb.; Animal pulv. 1 cwt. @ 130/- cwt.; 56 lbs. @ 136/- cwt.; 7 lbs. @ 1/4 lb.
Scammony Resin, Pulv., B.P., 7 lbs. @ 10/- lb.; 1 lb. @ 10/6 lb.
Shellac (Orange), 1½ cwt. @ 235/- cwt.; 7 lbs. @ 2/3 lb.
Soda Caustica, 6 1-lb. bots. @ 5/3 lb.
Soda Cit., B.P., 3 lbs. @ 3/6 lb.
Soda Sulphite, Recryst., 1 cwt. @ 35/- cwt.; 7 lbs. @ 4½d. lb.
Soda Sulphocarbolas, B.P., 7 lbs. @ 4/3 lb.; 1 lb. @ 4/7 lb.
Sodii Bromid., P.B., 7 lbs. @ 3/6 lb.
Soda Hyposulphite, pea cryst., 1 cwt. @ 42/- cwt.
Soda Hypophosph., 7 lbs. @ 4/- lb.; 1 lb. @ 4/3.
Sodii Salicyl. Pulv., 2 lbs. @ 10/6 lb.
*Spt. Æther Nit. P.B., 4½ lbs. @ 4/9 lb.; 1 lb. @ 5/2 lb.
* ,, Ammon. Aromat., P.B., 5 lbs. @ 4/- lb.
* ,, Chloroform, P.B., 5 lbs. @ 4/8 lb.
Strontiæ Bromid., 1 lb. @ 7/6 lb.
Strychnina Cryst. B.P. 4 oz. @ 4/5 oz.; Hydroch. and Sulphate, 2d. oz. less.
Sugar of Milk, P.B., 1 cwt. @ 275/- cwt.; 7 lbs. @ 2/9 lb.
Sulphonal, P.B., 1 lb. @ 47/6 lb.
*Syr. Aurant., P.B., 7 lbs. @ 1/1 lb.
* ,, Easton, B.P., 7 lbs. @ 1/8 lb.
* ,, Ferri Iodid. P.B. 7 lbs. @ 1/7½d. lb.
* ,, Ferri Phosph. Co., 7 lbs. @ 8d. lb.
* ,, Hypophosph. Co. B.P.C., 7 lbs. @ 1/2 lb.
* ,, Pruni Virg. B.P., 7 lbs. @ 11½d. lb.
* ,, Rhamni, 7 lbs. @ 1/1 lb.
* ,, Rhei, B.P., 7 lbs. @ 11d. lb.
* ,, Scillæ, P.B., 7 lbs. @ 7½d. lb.
* ,, Sennæ, P.B., 7 lbs. @ 1/- lb.
* ,, Tolut, P.B., 7 lbs. @ 10½d. lb.

Thymol, 1 lb. @ 48/- lb.
Tinct. Aurantii Recens., B.P., 5 lbs. @ 4/9 lb.; Aquos, 1/- lb.
*Tinct. Belladon., B.P., 5 lbs. @ 5/1 lb.; Aquos, 1/11 lb.
*Tinct. Benzoini Comp., 5 lbs. @ 5/1 lb.
*Tinct. Camph. Comp. P.B., 5 lbs. @ 3/6 lb.; Aquos, 1/6 lb.
*Tinct. Cantharidis, P.B., 5 lbs. @ 5/1 lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/5 lb.; Aquos, 1/1 lb.
*Tinct. Card. Comp., 5 lbs. @ 2/10½ lb.; Aquos, 1/2 lb.
*Tinct. Catechu, P.B., 5 lbs. @ 3/1½ lb.; Aquos, 1/2 lb.
*Tinct. Chlorof. c. Morph., P.B., 1885, 5 lbs. @ 3/- lb.
*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/10 lb.; Aquos, 1/4 lb.
*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/11 lb.; Aquos, 1/4 lb.
*Tinct. Digitalis, B.P., 5 lbs. @ 4/4 lb.; Aquos, 1/4 lb.
*Tinct. Gelsem, P.B., 5 lbs. @ 3/7 lb.; Aquos, 1/5 lb.
*Tinct. Gentianæ Comp., B.P., 5 lbs. @ 2/8 lb.; Aquos, 1/2 lb.
*Tinct. Hyoscyam., B.P., 5 lbs. @ 4/11 lb.; Aquos, 2/1 lb.
*Tinct. Iodi, B.P., 5 lbs. @ 5/9 lb.; Fort. @ 7/3 lb.; decolor., 5 lbs. @ 5/10 lb.
*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 5/- lb.; Aquos, 1/2 lb.
*Tinct. Myrrhæ, B.P., 5 lbs. @ 4/10 lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 3/10 lb.; Aquos, 1/5 lb.
*Tinct. Opii, B.P., 5 lbs. @ 8/10 lb.
*Tinct. Opii Aquos, 5 lbs. @ 7/- lb.
*Tinct. Quininæ Amm., B.P., 5 lbs. @ 3/6 lb.
*Tinct. Rhei Co. B.P., 5 lbs. @ 2/8 lb.; Aquos, 1/2 lb.
*Tinct. Scillæ, B.P., 5 lbs. @ 3/1 lb.; Aquos, 1/- lb.
*Tinct. Senegæ, P.B., 5 lbs. @ 3/10 lb.; Aquos, 1/7½ lb.
*Tinct. Strophanth., P.B., 5 lbs. @ 4/8 lb.
*Tinct. Valerianæ, 5 lbs. @ 3/11 lb.; Aquos, 1/6 lb.
*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 4/4 lb.; Aquos, 1/6 lb.
*Tinct. Zingib., P.B., 5 lbs. @ 5/1 lb.
*Tinct. Zingib. Fortior., 5 lbs. @ 5/7 lb.
Treacle (Black), 12 lbs. @ 7½d. lb.
Turpentine (Best American), 1 gal. tins @ 6/9 each; Venice, Genuine, 9 lbs. @ lb.

Ung. Acid. Boric. P.B., 28 lbs. @ 1/- lb.; Flav., 28 lbs. @ 8½d. lb.
,, Acid. Carbol., B.P., 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/6 lb.; 1 lb. @ 1/9 lb.
,, Gallæ, P.B., 7 lbs. @ 1/11 lb.; 1 lb. @ 2/3 lb.; c. Opio, 7 lbs. @ 7/9 lb.
,, Hydrargyri, B.P., 28 lbs. @ 3/7 lb.; 7 lbs. @ 3/10 lb.
,, Hydrarg. Ammon., B.P., 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/- lb.
,, Hyd. Nit. Dil., 7 lbs. @ 1/11 lb.
,, Paraff. Alb., P.B., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.; 1 lb. @ 1/4 lb.; Flav. 28 lbs. @ 9d. lb.; 7 lbs. @ 11d. lb.
,, Resinæ, P.B., 28 lbs. @ 1/10 lb.; 7 lbs. @ 2/- lb.
,, Sulphuris, B.P., 28 lbs. @ 1/7 lb.; 7 lbs. @ 1/8 lb.
,, Zinci Oxid. Benz., B.P., 28 lbs. @ 1/7 lb.

Wax, Japan, 2 cwt. @ 85/- cwt.; 7 lbs. @ 11d. lb.

Zinci Oleat. Powder, B.P.C., 7 lbs. @ 3/- lb.
Zinci Oxid., 1 cwt. @ 98/- cwt.; 28 lbs. @ 11d. lb.; 7 lbs. @ 1/- lb.
,, Sulph., pure, 1 cwt. @ 50/- cwt.; 28 lbs. @ 6½d. lb.
,, Sulphocarbolas, B.P., 7 lbs. @ 4/1 lb.; 1 lb. @ 4/4 lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

NOTE.—Only terms, Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

Stock
Early.
You Know the
Risk of
Delay.

TRADE MARK REGISTERED.
FOR
COUGHS.
Owbridge's
Lung Tonic
FOR
COLDS

W. T. OWBRIDGE, Ltd., The Laboratory, HULL.

Tele.—"AMCOMCO, FLEET, LONDON." Phone—1508 HOLBORN.
NEW YORK—PARIS—MILAN THE Established 1898
AMERICAN COMMERCE CO. LTD.
MANUFACTURERS AND MERCHANTS
19 St. Bride Street, London, E.C.

CAN OFFER
Aspirin
B.P. Crystals and Tablets
Theobromine
Acetic
Anhydride
British make
Salicylic Acid
Phenacetin
Pot. Bromide
Benzoate Soda
229

Solyptol Soap
A high-grade Toilet Soap of marked Antiseptic properties. Non-irritating. Agreeably perfumed. Lathers in hard water. Assists the complexion. Heals cuts & abrasions. Invaluable in the Nursery.
TOILET SOAP in 3-tablet boxes.
SHAVING STICKS, each in a carton, packed half-dozen in a display case, with protecting sheath.
F. H. FAULDING & CO., 54 Gt. Tower St., London, E.C. Adelaide, Perth, Sydney, Australia.
Stocked by all Patent Medicine Vendors and the Principal Stores.

'FLYBANE'
A. D. O.
Diseases spread by Flies are:
TYPHOID, CHOLERA, TUBERCULOSIS, INFANTILE DIARRHŒA.
Also germs of the following diseases are found on Flies:
OPHTHALMIA, INFANTILE PARALYSIS, ANTHRAX, PLAGUE, DYSENTRY. (2)
See Professor Lefroy's Reports.
MANUFACTURED BY S. BOWLEY & SON
Wellington Works, Battersea Bridge, LONDON, S.W. 11.

ASPIRIN TABLETS

ENGLISH ASPIRIN ONLY.

Each *tablet contains 5 grs. B.P. Aspirin, of the well-known make of Pierson, Morrell & Co. Ltd.,*

25's, 6/- per doz.; 100's, 20/- per doz.; 1000, 15/-

With own name and address if desired. A selection of 30 varieties of Labels.

Export Orders.—These must always be accompanied by a Draft payable in London, against documents, to cover cost of goods ordered *plus* an approximate amount for packing, carriage and insurance; any difference can be adjusted afterwards. Small orders are best and quickest sent by Parcels Post in packages of 11 lb. each.

H. & T. KIRBY & CO., LTD., Belton Road, Willesden Green, London, N.W. 2

EPSOM SALTS, Druggist and Commercial Qualities.
ZINC SULPHATE, Druggist and Commercial Qualities.

Prompt and forward deliveries. Inquiries solicited.

WILLIAM BLYTHE & CO., LTD.,
CHEMICAL MANUFACTURERS, CHURCH, LANCASHIRE.

Cable Address: "CELAITCH NEW YORK."

CHAS. L. HUISKING,

5 PLATT STREET, NEW YORK CITY.

Broker and Commission Merchant.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agent for leading Houses in all parts of the World.

Weekly Market Reports Mailed on request of Wholesale Buyers only.

COLOURS (Aniline and Alizarin).
CHEMICALS. DYEWOODS and ACIDS.
EDIBLE OILS. FATS.

BEFORE BUYING ELSEWHERE IT WILL BE TO YOUR ADVANTAGE TO ASK FOR QUOTATIONS FROM

A. CONNELL & CO.

3 JEWRY STREET, LONDON, E.C. 3.

CHEMICALS AND DRUGS
PURE AND TECHNICAL

ESSENCES
OILS and FATS,
LANOLINE (Anhydr.),
LIQUORICE JUICE,
LIQUORICE ROOT,
SACCHARINE,
CREAM of TARTAR,
Corrosive Sublimate,
POT. CARB.

FUERST BROTHERS
LIMITED,
17 Philpot Lane, E.C.3.
Telephone: LONDON WALL 4350.
Telegrams: "FUERST, GRACE, LONDON."

Crampton's
Specialities

BAKING POWDER
(Standard Grades, also made up from own recipes)
GROUND PEPPERS & SPICES
HOUSEHOLD AND MANUFACTURING STARCHES
TARTARIC & CITRIC ACIDS
CREAM OF TARTAR
CREAM OF TARTAR SUBSTITUTES
PULV. SEIDLITZ, B.P.
BORAX & BORIC ACID
DRUGGIST EPSOM SALTS
GELATINES & ISINGLASS
CATTLE SPICES & SEEDS
PURE HONEY

JOHN Crampton & Co. LTD
Telephone 4984 Central Manchester
357-9 Deansgate, MANCHESTER.
Branch-460 Gallowgate, GLASGOW.
Telegrams NUTMEGS Manchester

MALLINCKRODT
CHEMICAL WORKS
OF CANADA LTD.

THE products of our manufacture are of the Purest and Highest Standard. We are in a position to offer the Mother Country and Sister Colonies a full line of PHARMACEUTICAL AND PHOTOGRAPHIC CHEMICALS.

Acid Acetic 80% — Acid Acetic Glacial
Acid Pyrogallic (Crystals and resublimed) — Acid Gallic
Hydroquinone — Rhodol (Metol)
Trional (Methyl-Sulphonal) — Acid Tannic
Morphine Salts — Sulphonal
Hexamethylenetetramine

MADE IN CANADA
ACID ACETYL-SALICYLIC B.P.
(Pure Aspirin)
Manufactured at our Montreal Works. BRITISH MAKE.
Lowest Prices for Wholesale Quantities.

Cable Address: "Mallchem Montreal."

FOR
QUININE
& SALTS
ALSO
QUINIDINE
CINCHONINE
CINCHONIDINE
AND SALTS
AND
SUGAR-COATED QUININE TABLETS
MANUFACTURED BY
AMSTERDAM QUININE WORKS,
Wittenkade 48/50, Amsterdam,
APPLY TO
SOLE AGENTS for the UNITED KINGDOM:—
COURTIN & WARNER, 8 Harp Lane, London, E.C.3.
For samples, prices and particulars.
Telegrams: "Accourtina, Bilgate London."
Telephone No.: Avenue 2220.

Telegrams: "Paganini, Cannon, London."

CHAS. PAGE & CO.

Telephones: Avenue 1729 (3 lines.)

47/51 King William Street, LONDON, E.C.

OFFER AT FIRST HAND FOR PROMPT DELIVERY:

ACETANILID
ACETIC ANHYDRIDE
BETA-NAPHTHOL
CITRIC ACID
CALCIUM ACID PHOSPHATE
CALCIUM SULPHITE

FLAKE NAPHTHALINE
MAGNESIUM SULPHATE
PHOSPHORIC ACID
SODIUM ACETATE
" BISULPHITE POWDER
" " SOLUTION
" NITRITE

SODIUM PRUSSIATE
" PHOSPHATE
" PYROPHOSPHATE
" SULPHITE (Coml. & Peas)
TARTARIC ACID
TRIACETINE

Becker, Shillan & Co.

40 Eastcheap, LONDON, E.C. 3.

Telegraphic Address: "BECKDIETZ LONDON."
ESTABLISHED 1862.

OFFICES AT
LIVERPOOL, MANCHESTER & GLASGOW.

EXPORT—IMPORT.

Drugs, Chemical and Pharmaceutical Products.

Oxalic Acid—Tannic Acid—Alum—Bichromate of Soda—Logwood Extract—Aniline Dyes—Naphthaline—Sulphate of Copper—Epsom Salts.

TARTARIC ACID—CITRIC ACID—CREAM OF TARTAR—FORMALDEHYDE—BROMIDES—SALICYLATES.

JOHNSON'S CHEMICALS

AMMON. MOLYBDATE.
ACID MOLYBDIC.
SILVER PROTEINATE.
TIN PROTOCHLORIDE.

ACID PYROGALLIC. AZOL.
AMIDOL-JOHNSONS. HYDROKINONE.
ALL PHOTOGRAPHIC CHEMICALS in TABLETS, POWDER or SOLUTION.

New price list on application.
Special terms for contracts.

JOHNSON & SONS, Manufacturing Chemists, Ltd. Cross Street, Finsbury, LONDON.

NEW YORK CORRESPONDENCE: BRASSARD CHEM. CO. INC. 22 BROADWAY.

THE FABRA COMPANY, LIMITED.

HEAD OFFICE: **BRADFORD,** 46 Vicar Lane.

"Fabra" Registered

LONDON, 24 Minories, E. 1.

MANCHESTER: LLOYDS BANK BLDGS., KING STREET.
GLASGOW: 54 GORDON STREET.

WE ARE PLEASED TO OFFER THE SERVICES OF OUR TECHNICAL STAFF AND RESEARCH LABORATORIES.

IMPORTERS & EXPORTERS OF ALL CLASSES OF FINE & PHARMACEUTICAL CHEMICALS, DRUGS, ACIDS, etc.

Phenacetin. Aspirin.
Methyl Salicylate. Acetanilide.
Soda Sal. Sal. Acid.
Hexamine. Phthaleins.
Formic Acid. Acetic Acid.
And all heavy Chemicals.

For the preparation of small quantities of rarer chemicals, active enzymes, &c., PLEASE SEND US YOUR INQUIRIES.

SEEBY DRUG COMPANY

(American-owned Corporation)

79 EAST 130th STREET, NEW YORK CITY.

MANUFACTURERS & DEALERS

CHEMICALS, DRUGS & DRUG SPECIALTIES.

Commission Merchants & Buying & Selling Agents in the United States, Canada & South America.

Correspondence and Accounts with Foreign Manufacturers Solicited.

British Pharmaceuticals

ACETANILID
AMYL ACETATE
SODA SULPHOCARBOLATE
ZINC SULPHOCARBOLATE

E. H. BUTLER & SON, Manufacturing Chemists
93 Humberstone Gate, LEICESTER.

Swiss Aniline Colours.

J. R. GEIGY, S.A.,
Basle - Switzerland
are makers of

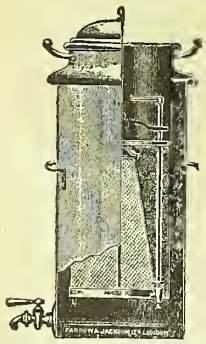
ACID REDS, YELLOWS and ORANGES
METHYLENE BLUES SPIRIT BLUE
NIGROSINES. TANNIC ACID

Agents for Leicester District:
E. H. BUTLER & SON, LEICESTER.

"FARJAK"

ASBESTOS FILTERING MEDIUMS.

For the clarification of
PHARMACEUTICAL PREPARATIONS.



The above used with the

"TOWER" ASBESTOS FILTERS

give the best possible results.

PARTICULARS ON APPLICATION

Filling, Corking, Capsuling Machines, &c.

ESTABLISHED 1798

FARROW & JACKSON
LIMITED,
16 GREAT TOWER STREET, LONDON, E.C. 3.

Antipyrin.

Acid Salicylic	Aspirin P.B.
Silver Proteinate	Bromides
Silver Nucleinate	Soda Salicylate

HARTLEY FLOREY,
45 Great Tower St., London, E.C.3.
Phone: Avenue 3889. Telegrams: "Yerolftrah, Phone, London."

ALL . . .

Chemicals & Drugs

PHARMACEUTICAL and TECHNICAL,

WHOLESALE and EXPORT

INQUIRIES SOLICITED.

V. A. PICERNO

92 Falcon Road, BATTERSEA, LONDON.
Telephone: BATTERSEA 1612.
Telegrams: "Picerno, Falcon Rd., Battersea, London."

We are Buyers and Sellers
of everything in

DRUGS, CHEMICALS, SPECIALTIES.

ICHTHYOL SUBSTITUTE
SODIUM SALICYLATE
SALICYLIC ACID
S LOL
FORMALDEHYDE
BROMIDES
SACCHARIN
COUMARIN
PHENOLPHTHALEIN
HEXAMINE
CAFFEIN ALKALOID
ACETPHENETIDIN

All Industrial and Pharmaceutical Chemicals.

Send us your Offerings and Inquiries.

We are buying and selling representatives for foreign houses.

SAMSON ROSENBLATT,
261 BROADWAY - New York City.
Cable Address: "Rosenchem, New York."

WE CAN OFFER FIRST HAND

SODA SULPHATE (PEA XTALS.)
ACETIC & OXALIC ACID.
ACID TARTARIC.
SODA CARBONATE (PEA XTALS.)
GUAIACOL CARBONATE

A. D. CHESTER & CO., LTD.
Chemical Works, Drummond Road, Bermondsey, London.
Telephones - - Nos. 6 and 4782 HOP.

Warrington Chemical & Drug Co. LTD.
Paddington Works, WARRINGTON
Manufacturers of
Salicylic Acid & Salicylates
OF FINEST B.P. QUALITY.
IMMEDIATE DELIVERY.

ASPIRIN

PURE ENGLISH
ACETYL-SALICYLIC ACID, B.P.
M.P. 135° C.

Free from SALICYLIC, ACETIC, TARTARIC, and CITRIC ACIDS, BORAX and all other impurities and adulterants.

The complete purity of our product, combined with its beautiful physical state and well-crystallised condition, render it easily superior in every way to the German product it has replaced.

PHYSIOLOGICALLY PERFECT.
Supplied in Wholesale Quantities only.

PICKARD, IVE & RANKIN, LTD.,
186/88 Walmer Road, Notting Hill, W. 11.
Phone: 4500 Park. Telegrams: "Pickiveran, Norkens"

STRONTIUM BROMIDE
PURISS.
Packed in ½-Kilo. Bottles.
IMMEDIATE DELIVERY.
PERRY & HOPE, Ltd., 1 Leadenhall St., London, E.C.3
Telephones: Aven. 5661 (3 lines). Telegrams: "Perryope, Led, London."

LANKSHEAR, WICKSTEAD & CO., LTD.
Botany Mill, WOODLEY.
Telegrams: "RACEMIC, WOODLEY." Telephone: 180 Hyde.

MANUFACTURERS OF
TARTARIC ACID B.P.
Crystal and Powder.

Swiss Bank Corporation
Basle, Zurich, St. Gall, Geneva, Lausanne, Bienne.
London Office - - - 43 LOTHBURY, E.C. 2.
West End Branch: 11c Regent St., Waterloo Place, S.W.1.
Capital Authorised & Fully Paid-up £3,280,000
Reserves - - - - - £1,110,000

Banking and Exchange Business of every description transacted. The Bank will gladly furnish the Chemical and Drug trades with all available information regarding Trade and Industry in Foreign Countries.

BRITISH MADE BRITISH OWNED

WE CAN GIVE DELIVERY of the BEST WINTER LINE.

"SYMPHELITE" Patent SPIRIT STOVES

IF UPSET QUITE SAFE.

NO LIQUID.

NO SPILLING.

Absolutely Safe. No Evaporation in Stock. Cheapest in use. No Wicks. Renewable indefinitely with Methylated Spirit or PETROL.

NOTE.—If upset the "Symphelite" is quite safe. It will either extinguish itself or remain burning on its side like this.

GREAT DISCOVERY THE ONLY STOVE THAT WILL BURN without a Wick and at 1/20th the cost of Solidified Spirit. PETROL

The New Bunsen Stand burns Petrol without Smoke or Danger.

COMPARISON

		COST.
Solidified Spirit, boils 2 pints in 34 min.	...	2¼d.
"SYMPHELITE"—		
With Methylated Spirit ,, ,, 17 ,,	...	⅜d.
,, PETROL ,, ,, 9 ,,	...	⅜d.

PRICES

THE "SYMPHELITE" STOVE.

	EACH.
No. 1 STOVES	1s. 3d. and 1s. 9d.
Ditto, Plated...	2s. 9d. and 3s. 6d.
TRAVELLING SETS	2s. 6d.
Ditto, Plated Steel...	6s. 6d.
Ditto, Polished Copper	12s. 6d.
Model de Luxe Sets	14s. and 17s.
SHAVING SETS	1s. 6d.
Ditto, Plated...	2s. 6d.
PICNIC BOILERS	5s. 9d., 6s. 6d., 7s. 6d.

LARGELY USED in the TRENCHES.

Also for Hospitals, Nursing, Motoring, Boating, and Household purposes.

A GREAT LINE FOR CHEMISTS AND FACTORS.

Trade Discount 33⅓ %, and 2½ % one month.

Every Mother needs a "Symphelite" Stove

WORKS—

THE SYMPHELITE COMPANY

SHANKLIN, ISLE OF WIGHT.

London Offices: 77 Craven House Kingsway, W.C.

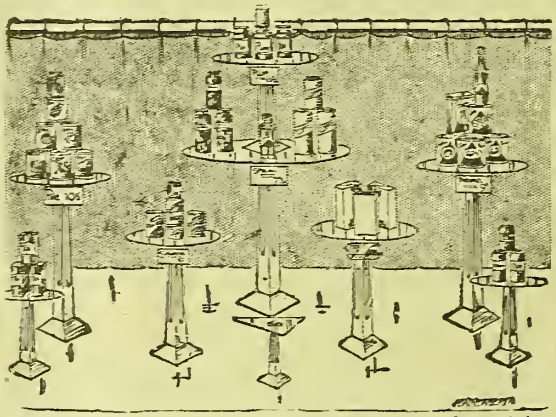
BRITISH CAPITAL Agents wanted for the Midlands and West of England. A great Export Line for all Countries. BRITISH LABOUR

W. DAVIS 100 WOOD ST., E.C. 2 'Phone: CITY 8220

W. DAVIS 100 WOOD ST., E.C. 2 'Phone: CITY 8220.

For OPEN WINDOW DISPLAYS. For OPEN WINDOW DISPLAYS.

WRITE FOR OUR LIST SHOWING MANY NEW DESIGNS FOR OPEN WINDOW DISPLAYS.



Set 139.—Consisting of 1 27 in., 2 24 in., 3 12 in. 3 9 in. POLISHED OAK PEDESTALS, with 1 24 in. × 18 in., 2 18 in. × 12 in., 2 16 in. × 10 in. OVAL PLATE GLASS SHELVES; 1 12 in. Angle and 3 10 in. Circles.

74/- Complete.

Our WINDOW PAPERS are 2/9 per roll of 12 yards, 21 in. wide—WRITE FOR SAMPLES.

LEP TRANSPORT

OVERLAND TO THE CONTINENT

Via **Lep Transport & Depository, Ltd.,**
Castle St., Long Acre, London, W.C. 2.

Phone: Regent 5805 (7 Lines). Wires: "Depolep London."

And at Boulogne, Le Treport, Paris and Turin.

VIA LEP

IF you have goods to deliver from any place in Great Britain to France, Italy, Spain, etc., send them by LEP TRANSPORT.

LEP TRANSPORT, by using the Channel Ports of Northern France, avoids the delays and risks of a long sea voyage and reduces cost of freight and insurance.

LEP TRANSPORT guarantees quickness, moderate charges and complete satisfaction.

Send us to-day particulars of goods, weight, destination, and dates ready for dispatch, and we will reply by return with estimate of inclusive charges.

KAY BROTHERS, Ltd.

Manufacturing Chemists, STOCKPORT

Nat. Tel.: 247 Stockport. Telegrams: "Kay Stockport."

CONTRACTORS TO H.M. GOVERNMENT.

BIRDLIMES and **FLY GUMS** for all climates.

FLYPAPERS, Non-Poisonous. "Big Bat" & "Falcon" Brands.

FLYCATCHERS, TAPES & BANDS. Spiral Wire, "Vampire." Tape, "Flysac." " "Gorgon." " "Lizard." Roll Band, "Viper." (2 in. and 4 in. wide.)

CEMENTS FOR MOST PURPOSES. **"COAGULINE."** Transparent Cement for broken articles, 6d. bots. **"TENASITINE."** A Liquid Cement in Tubes, 1d., 2d., 3d. & 6d. **"KLINX."** Hydraulic Cement (heatproof), 6d. tins. **"CUE CEMENT."** 6d. & 1/-

"ORBITE." A non-running, sticky composition for Banding Fruit Trees.

"PULVICIDE" (Patented). A Dust-laying Compound. Agents wanted for its introduction to Municipalities.

"LINSEED COMPOUND." On P.A.T.A. List. A Cough Mixture of over 50 years' proven excellence.

FREDK. FINK & CO.,
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK.
Lightest and Whitest, also Purest Dense.
APPLY TO
AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helens, LONDON, E.C.
Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

E. CRAWSHAW & CO.,
56 Great Dover Street, S.E.
ANILINE DYE MERCHANTS,
are still selling their well-known Aniline Dyes to retail in Penny Packets.
Telephone: Hop 4992. Teleg. Address: "Cachous London."

SHADEINE
FOR COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses.
TRIAL BOTTLES 7d. size supplied on pretty showcards.
5/- doz.; 1/2 size, 11/- doz.; 3/6 size, 33/- doz.
THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

HOT WATER BOTTLES
BEST BRITISH MAKE. FINEST VALUE.
6"×10" 3/3 — 7"×10" 3/6 — 8"×10" 3/9 — 8"×12" 4/3 each. And other sizes.
No Advance. Special Discount for Quantities.
JAMES TOMPKINS, Ltd. (The RUBBER HOUSE)
386 CITY ROAD, LONDON, E.C.1. (Established 1877.)

CACHETS "FINOT"
(White or Coloured),
With Inscriptions in any desired tint; also Plain or Embossed.
"Beautifully made and the inscriptions give them a distinction all their own."—*C. & D.*
"Perfection of Cachets."—*Lancet.*
These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes, to fit the various types of Cachet Machines.

Wrinkles Absolutely Removed BY **Denova** IN DAINTY DOULTON POTS
TRADE MARK
P.A.T.A. 3/9.
Wholesale terms on application.
From your Wholesaler or
The Thames Chemical Co., Ltd.,
Amberley House, Norfolk St., Strand, W.C.

Telephone: 759 GRIMSBY.
W. GARTHWAITE,
Mechanic to the Dental Profession,
378 CLEETHORPES ROAD, GRIMSBY.
PRICE LIST ON APPLICATION.

WEST-END PHARMACY SUPPLY
(*R. Rios & Co*) 231 REGENT ST., LONDON, W. 1.
Sole Agents for United Kingdom for
BLENOSAN CAPSULES (Kava-Kava and Santal Compound).
CACHETS "WEPS" All sizes, 2/9 per 1000, plain or embossed. Write for Samples.
Clinical Thermometers. Medicinal Capsules. Fine Chemicals.

JOHN E. RAWORTH
CHARTERED PATENT AGENT,
PATENTS, TRADE MARKS AND DESIGNS.
THE OLD MANSION HOUSE, 73 Cheapside, E.C. and QUEEN ANNE'S CHAMBERS, WESTMINSTER, S.W.

Van Horn and Sawtell
—LONDON AND NEW YORK— MAKERS OF
"K-Y" LUBRICATING JELLY
IN COLLAPSIBLE TUBES AND OF
Van Horn "Sterile Sutures and Ligatures
IN GLASS TUBES — PRICES ON APPLICATION
81-83 HIGH HOLBORN, W.C.

Zepto advertised 9d. P.A.T.A. 7½d. 4/6 dozen.
WOULD you like a show that incurred no risk and sold this line NOW? Thats the interesting proposition we should like to tell you about if we may.
CHRISTYS, OLD SWAN LANE, E.C.

ELASTIC GUM SURGICAL INSTRUMENTS.

Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Œsophageal Instruments.
Horse Catheters and Cattle Probangs. Wholesale and Export only. *Price List from the Manufacturers.*
MASON BROS. & CHAPMAN, 107 Whitecross St., LONDON, E.C.

Sole South African Agent & Shipper for
JOHN GOSNELL & Co., Ltd. London.
The STANDARD TABLET AND PILL CO., Ltd., Hove.
The "DO-WELL" FEEDER VALVES AND TEATS.

ASTELL J. WILLSON
Chemists' Buying Agent and General Export Merchant
25 MONUMENT ST., LONDON, E.C.
Cable Address: "Acriton London." Telephone: 5683 Avenue. And P.O. Box 1155 Capetown.

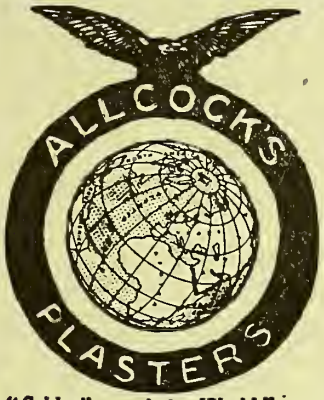
ALL INDENTS SENT TO ME WILL RECEIVE MY PERSONAL and PROMPT ATTENTION.
Proprietor of "ESTELLE" (*Reg.*) Brand of Toilet Articles & Feeding Bottles.

ESTABLISHED 1847.

Allcock's PLASTERS

A REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and Bunion Plasters
Brandreth's Pills
The Three Reliables.



Prices and Terms on application to

ALLCOCK MANUFACTURING COMPANY
22 Hamilton Sq., Birkenhead.

"Sold all round the World."

Sphagnol

for

Chilblains.

There is no better remedy for your CUSTOMERS at HOME and for their MEN ON ACTIVE SERVICE.

SPHAGNOL OINTMENT *is good Winter Stock* and can be recommended with every confidence as a reliable cure.

Obtainable of all Druggists' Sundriesmen, or direct from Proprietors:

PEAT PRODUCTS (Sphagnol) LTD.
19 Queenhithe, Upper Thames Street, London, E.C. 4.

IMPORTANT.

COCAIN AND OPIUM REGULATIONS

Clause "E" of the above requires a Special Register to be kept recording the ingredients of the Prescription and the name and address of the person to whom it is sold or delivered. Keep your record exact by using

WILKINSON'S SPECIAL REGISTER

FOR THE PURPOSE, WITH INTRODUCTION AND COPIOUS EXTRACTS FROM THE ACT.

Contains 50 pages, and 3 pages for recording the purchase of Cocaine.

POST **1/9** FREE.

ORDER IT NOW FROM

JAMES F. WILKINSON,
(Exors.: G. F. Berry and J. G. Driver,)
Medical Label Printer, PENDLETON, Manchester.
Telegrams: "Reindeer, Manchester." 'Phone: City 1102.

WILFRED TURNER & CO., Ltd.

We are the exclusive Agents for London, Lancashire, Yorkshire, Scotland, Ireland and Export, for

Record Hypo. Syringes

Made by the **Pelham Surgical Instrument Co., Ltd., of Nottingham.**

We also offer at lowest prices:

FRENCH ALL-GLASS HYPO. SYRINGES

1c., 2cc., 5cc., & 20cc., boxed complete, or naked. Write for prices, stating sizes and quantities required.
2000 Plat. Irid. Needles.
600 doz. Reinforced Finger Cots.
200 gross Bottle Teats.
160 doz. Whirling Sprays, etc. etc.

30 CRAVEN ST., STRAND, LONDON, W.C. 2.

Impermeable Waterproof Plaster

As required for Factory First-aid Appliances under the new Home Office Order

We desire to inform the Trade that we are manufacturers of this particular Plaster, as well as all other Plasters, both in India-rubber Combination and Plumbi Base, and invite inquiries for quotations and samples.

EDWARD TAYLOR LIMITED

Islington Square, **SALFORD,** MANCHESTER

ESTABLISHED 70 YEARS.

AIR CUSHIONS.

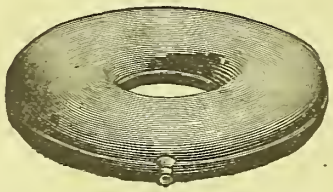


Fig. 1194.

BRITISH MAKE.

Fig. 1354.

Fig. 1194.—The "**EMPIRE,**" red India-rubber Air Cushion—

Diameter	14	15	16	17	18	19	20 in.
Each ...	6 6	7 0	8 0	8 6	10 0	11 6	12 6

Fig. 1354.—Air Cushion, sateen covered, reeded ... ... Sizes 14×10 | 15×12 | 18×14 in.
Each 4 3 | 4 9 | 6 0

Special Line.—Khaki-covered Pillow, 17×12 in., in khaki case, with clasp ... ...each 4 6
,, ,, ,, ,, ,, super quality ... ... ,, 6 0

5% discount allowed for prompt cash off above prices.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.,

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

NOTES ON HOT WATER BOTTLES.

The demand for Hot Water Bottles is steadily increasing each season, and a Chemist need have no hesitation in recommending the "Eclipse" as giving perfect satisfaction; and, moreover, he is protected in recommending "Eclipse" (Regd.) Hot Water Bottles *because Ingram's Trade Mark is a guarantee of quality.* Ingram's High-Grade Rubber "Eclipse" Hot Water Bottles are well known throughout the world for their reliability and construction; they have, as a result of the careful scientific manufacture, the distinct advantage of being suitable *for use in any climate.*

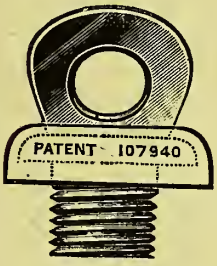


Fig. 1.

There are other advantages claimed for Ingram's "Eclipse" Bottles; the difficulty has been in obtaining a satisfactory Bottle from many points of view. For instance, the important question of the stopper. Hot Water Bottles, Beds and the like have usually been provided with a metal screw stopper, an india-rubber washer fitting around part of the stopper being usually employed to make a water-tight joint between the stopper and socket. Such washers very quickly wear away and become loose, with the result shown in Fig. 3—a constant source of trouble and leakage.

The object of the Patent Rubber-Covered Screw Stopper (Patent No. 107940) is to overcome the loss of washer and "leakage" question finally. Figs. 1 and 2 (in section) show the new patent rubber covering, which is a fixture, gripping the brass flange securely (A), and therefore *no loss of washer is possible,* and when the stopper is screwed down the broad solid seating (B) renders it *absolutely watertight.*

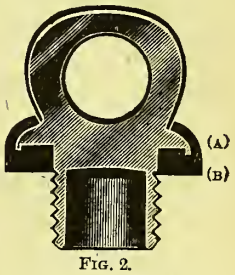


Fig. 2.
Patent No. 107940.

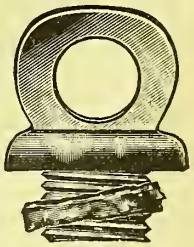


Fig. 3.

A PROFITABLE LINE FOR THE COMING SEASON!

INGRAM'S

BEST QUALITY RUBBER.

"Eclipse" Regd.

BRITISH MADE.

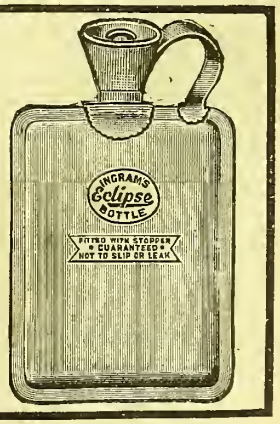
Trade Mark.

HOT WATER BOTTLE

Made in all sizes and fitted with Rubber-Covered Screw Stopper (Patent No. 107940). Guaranteed not to slip or leak. Supplied with Jug or Loop Handle.

Obtainable from all Wholesale Houses.

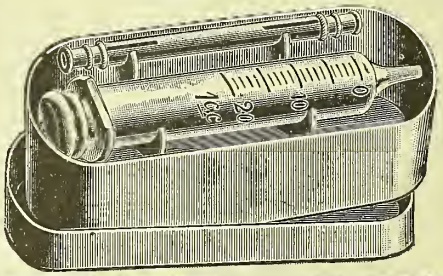
Size, inches	10×6	10×8	12×6	12×8	14×8	12×10	14×12	16×12
Approx. weight, ozs.	10½	11½	11½	12½	14½	15	18¾	21¼
Minimum Wholesale Prices to Chemists	3/10	4/3	4/3	4/6	5/3	5/5	6/9	7/9 each.
Retail Prices, Minimum	5/6	6/-	6/-	6/3	7/3	7/6	9/6	11/- „



J. G. INGRAM & SON, Ltd., London India-rubber Works. Hackney Wick, London, E.9., Eng.

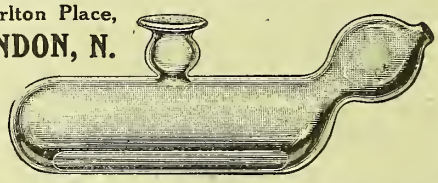
PROHIBITION OF GLASS BOTTLES

In view of the prohibition on Glass Bottles we can surely be of use to you with our large and varied stocks. SEND FOR STOCK LIST.



JULES LANG & SON,

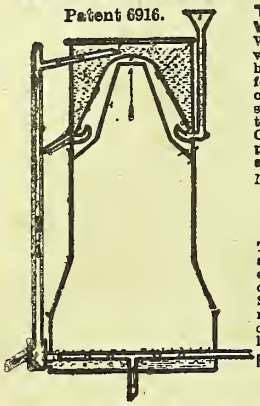
Charlton Works, Charlton Place,
ISLINGTON, LONDON, N.



Sole Proprietor:
FERNAND. RENÉ LANG.

Telegrams: "Assorted, Nordo, London." Telephones: North 1344-5

Patent 6916.



TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c.

We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic. Prices as below:—

For producing up to

1½ gallons per hour,	£3 10 0	Plus 33⅓% net War Advance.
" 5 " "	£10 0 0	
" 9 " "	£12 10 0	
" 15 " "	£16 10 0	

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills:—National Physical Laboratory, 2 in use; Imperial College of Science, 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses, etc. etc.

Pamphlets & particulars forwarded on application

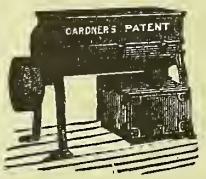
Estimates submitted free if required for supplying and fitting complete.

BROWN & SON, Alembic Works, 9 Wedmore St., Holloway, N.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS

OVER 4,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust



FOR HAND OR POWER.

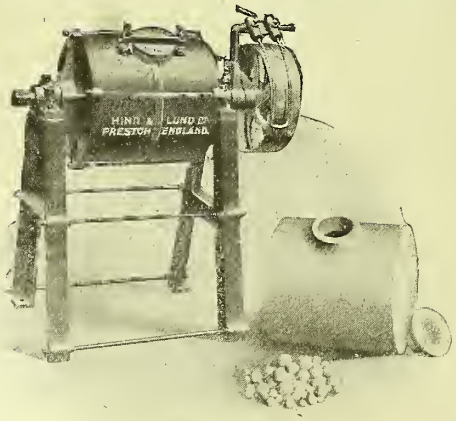
From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

BALL GRINDING MILLS

IRON CYLINDERS, PORCELAIN OR QUARTZ-LINED. BATTERIES OF JARS FOR SMALL QUANTITIES. FLINT PEBBLES, PORCELAIN, BRASS, STEEL OR HARDWOOD BALLS. ALSO SPARE PORCELAIN JARS AND CHILLED IRON LINERS SUPPLIED.



BRITISH MADE THROUGHOUT.

SPECIALISTS IN BREAKING, GRINDING, SIFTING, DRYING, AND MIXING MACHINES.

HIND & LUND, LTD.

ATLAS WORKS, PRESTON.

Telegrams: "Atlas Preston." Telephone: No. 125. (1)

CHEMICAL PLANT

FOR NEARLY ALL INDUSTRIES IN

STEEL, CAST IRON, BRONZE AND SPECIAL ALLOYS

OR

TANTIRON

ORGANIC & SYNTHETIC PRODUCTS,
SALICYLIC ACID & SULPHONATED,
CHLORINATED & ACETYLATED COMPOUNDS.
PLANTS FOR NITRIC, SULPHURIC & HYDROCHLORIC ACID.

LENNOX FOUNDRY CO., LTD.

GLENVILLE GROVE, NEW CROSS, LONDON, S.E.

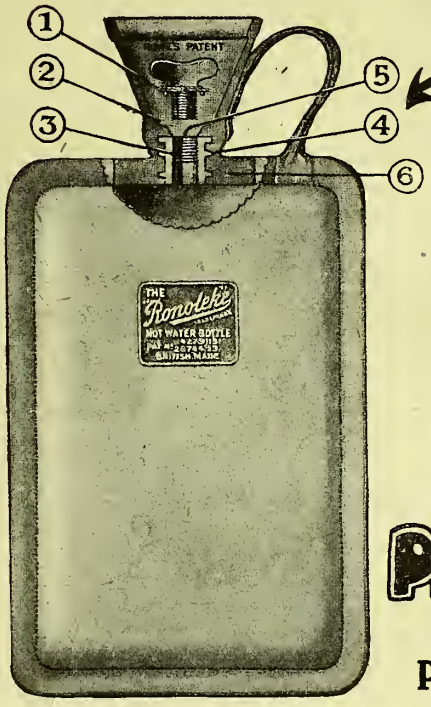
Telegrams: "Equifex Dept., London." Telephone: New Cross 770.

AS SUPPLIED TO WAR OFFICE, RED CROSS SOCIETIES, & IS NOW IN USE IN MILITARY HOSPITALS

PROTECTED BY BRITISH, FRENCH, AMERICAN, RUSSIAN, BELGIAN, AND JAPANESE PATENTS.

THE "Ronoleke" REGD.

HOT WATER BOTTLE



NOTE THESE POINTS

1. Rounded Flange of Screw-Top engaging
2. Rubber Flange $\frac{3}{16}$" thick (moulded)
3. Wide Metal Flange (embedded)
4. Projecting Lugs of Socket (embedded)
5. Aperture at Funnel (Easy-filling)
6. Moulded Rubber, fixing socket (Security Guaranteed)

PROFITS SECURED

PRICES PROTECTED (ON P.A.T.A. LIST)

SIZE	WHOLESALE	RETAIL
6×8	3/7	5/4
6×10	3/11	5/10
6×12	4/2	6/4
7×10	4/1	6/2
7×12	4/8	7/-
8×10	4/5	6/8
8×12	5/-	7/6
8×14	5/5	8/4
9×12	5/4	8/-
10×12	5/8	8/6
10×14	6/5	9/8
10×16	6/10	10/4
12×16	7/4	11/8

SOLE PROPRIETORS:

CAMPBELL, ACHNACH & CO., LTD.

59 Wallace St., S.S., GLASGOW.

Sold by all Druggists' Sundriesmen

FIRST AID OUTFITS.

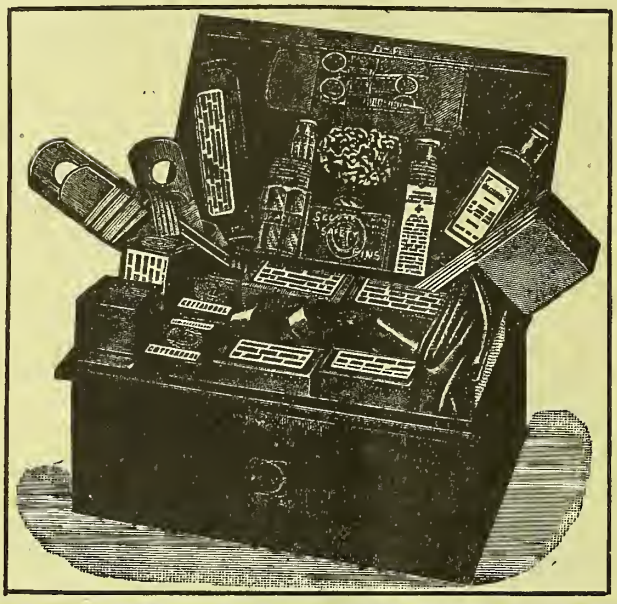
Quick Sales will be experienced by the display of "Fastnet" handsomely-packed Outfits, costing:—

No. 2, 4/6

No. 3, 6/6

No. 4, 12/-

NETT.



No. 5, 17/6

No. 6, 22/-

No. 7, 45/-

NETT.

JOHN TIMPSON & CO.,
Limited,
104-106, Golden Lane,
LONDON, E.C.1.

Telephone:
CITY 6910 (2 Lines).
Telegrams:
"POROUS, LONDON."

ROBT. BAILEY & SON,

Sole Proprietor: A. BAILEY.

Marriott Street Mills,
STOCKPORT.

Telephone No.
Stockport 694.

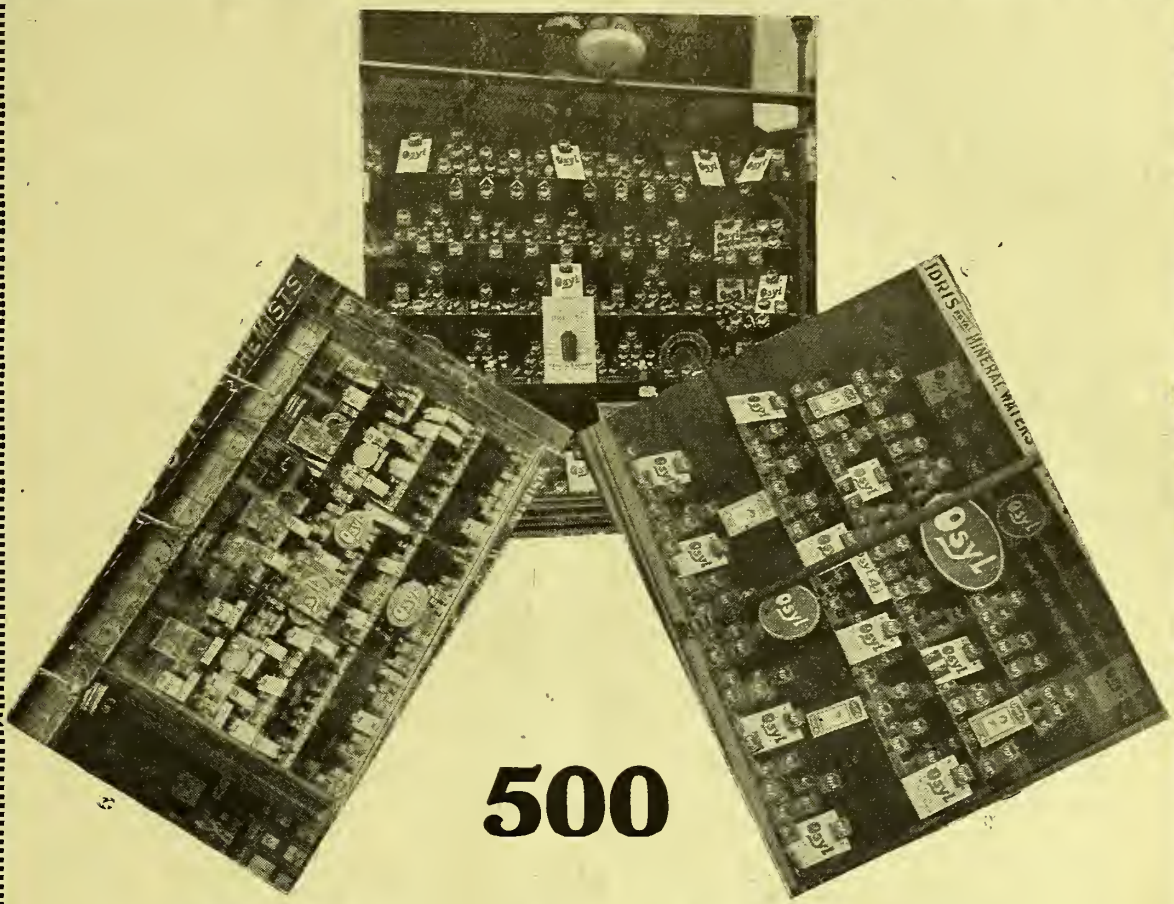
Telegrams:
"Undisputed Stockport."

MANUFACTURERS OF

**SURGICAL DRESSINGS
ABSORBENT GAUZE TISSUE,
COTTON WOOL, BANDAGES.
LINT, TOW, &c.
PATENT FOUR-PLY GAUZE.
SANITARY TOWELS.**

**BRITISH MADE
AND
BRITISH OWNED.**

WHOLESALE ONLY. Write for Samples and Prices.



500

WINDOW SHOWS

HAVE HELPED TO POPULARISE

ŌSYL

THE PREMIER TOOTH PASTE & POWDER.

Selling at 6d. per tube and 4½d. per tin respectively.

An ŌSYL window brings profits and satisfied customers.

Read this from a satisfied Pharmacist:

"Never sent a cheque with more pleasure, wish I could do a hundred times the amount, but this is only a small village."

Tear out this advertisement, stick your name and address on and send to us. We will send you our SPECIAL 20/- OFFER, which will return you a profit of 34/- !

LYSOL LTD., STRATFORD, LONDON, E. 15.

Telegrams: "LYSOLANT (Strat.)." *'Phone: EAST 892.*

Seasonable Toilet Specialities.

HOVENDEN'S
SUPERIOR BRITISH-MADE EAU DE COLOGNE

Nos. 4706/7.

OUR LATEST PRODUCTION.

STAR BRAND COLOGNE.

Extra Quality.

A Cologne that will recommend itself.

	Doz.
No. 4706. 2 oz. (about) ...	17/9
" 4707. 4 " " (*as illustration*)...	32/6
¼ pints, round bottles. in bulk	40/-
½ pints, round bottles, in bulk	78/-
1 pints, round bottles, in bulk	150/-

"STAR" BRAND.

No. 1497.

No. 1496. 2 oz. (about), 11/- doz.

No. 1497. 4 oz. (about), 19/6 doz.

RECENT TESTIMONIAL.

"Many thanks for Eau de Cologne received. It certainly is the best I have used, and I am glad we are not dependent on another country for that most refreshing of Perfumes."

THE IMPERIAL.

No. 4692. 2 oz. (about), 17/- doz.

No. 4693. 4 oz. (about), 30/- doz.

RELIABLE QUALITY.

Nos. 4692/3.

SATISFACTION ASSURED.

A GREAT FAVOURITE.

No. 4626. Decorated tins, 5/8 doz.; 66/- gross.

A NON-GREASY HAIR FIXER.

No. 4619. 5/- doz.

No. 4620. 10/- doz.

THE MDME. STE CROIX'S HENNA SHAMPOO POWDER.

Leaves the hair bright after use.

No. 4618/7.

7 Packets in Box. 9/- per doz. boxes.

Customer's own Name FREE on 3-doz. boxes.

HOVENDEN'S SPECIALITIES.

TOILET AND BATH SOAPS AND CRYSTALS.
VISITORS' SOAP TABLETS.
COMPACTE POUDRE PARISIENNE (BRUNETTE, &c.).
SWEET LAVENDER (MAUDE MILLETT BRAND).
IMPERIAL BATH CRYSTALS.
THEATRICAL COLD CREAM (The Make-up Remover).

SPECIAL QUOTATIONS ON APPLICATION.

SUBJECT TO 2½ PER CENT. DISCOUNT.

R. HOVENDEN & SONS, Ltd.

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. 1. Tel. No.: Museum 2810 (3 lines).
And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. 1. Tel. No.: 6260 London Wall (2 lines).
Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

LONDON.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, OCTOBER 13, 1917

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4 Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. **Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London."** (Three words counted as two.

EARLIER CLOSING FOR PRESS.

WILL intending Advertisers please note that until further notice all Advertisements for THE CHEMIST AND DRUGGIST SUPPLEMENT must be in the Publisher's hands not later than

FIRST POST THURSDAY MORNING,

to be available for the issue published in that particular week. Owing to restricted postal deliveries it is advisable to *post* all communications on the Tuesday preceding the date of issue. Advertisements received after the time indicated will be inserted in the following week's issue.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—BANKS OF THE THAMES.—Retail and Dispensing Business, situate in busy main thoroughfare; returns between £1,800 and £1,900; *net profit* £461; books open to inspection; price £850; stock and fixtures recently valued at £650.

2.—KENSINGTON, W.—Dispensing and Retail Business; returns £800, formerly £1,000; well-fitted shop and comfortable residence; held on lease; first reasonable offer accepted.

3.—KING'S CROSS (within easy distance of).—Established Business; Retail Prescribing and N.H.I. Dispensing; returns last year £1,000; *net profit*, after paying every expense, £386; proof given; large shop with comfortable residence and private entrance; rent £50 yearly; price £600.

4.—LONDON, N.E.—Ready-money Business; established many years; held by Vendor upwards of 25; now retiring; returns about £650; *net profit* £250, comfortable residence; terms, valuation of stock and fixtures; part payment entertained.

5.—MIDDLESEX.—Retail and Dispensing Business; situate in growing neighbourhood; returns exceed £500 yearly; corner shop; situate in close proximity to railway station; price about £300.

6.—LONDON, S.W. (Favourite Residential Locality).—Middle-class Retail and Dispensing Business, held by vendor many years, now retiring; returns between £850 and £900; good opening for extension under energetic management; first reasonable offer will be accepted.

7.—LONDON, W. (Main Thoroughfare).—Retail and Dispensing (N.H.I.) Business in main marketing thoroughfare; returns £900 to £1,000 per annum; gross profit 50 per cent.; price £300, or prompt offer; corner shop, double-fronted; nicely fitted and well stocked.

8.—SUSSEX (in the Heart of the Country).—Good-class Retail Business; returns show a steady increase, now £854, with *net profit* £252; rent £60, on lease, sublet £17; comfortable residence; large garden, planted with fruit trees; no serious opposition; full investigation invited; terms to be agreed.

9.—YORKSHIRE.—Mixed County Business with Gilbey's agency, etc.; returns average £800 yearly; *net profit* £200; price £500, or valuation of stock and fixtures; rent only £28, including good six-roomed house, garden, warehouse, and yard; nicely fitted and well stocked.

10.—HANTS (Seaport).—Established Business, Retail, Dispensing and Prescribing; returns £500 at good prices, practically no patents being sold; rent £30 per annum; price about £250.

11.—HOME COUNTY (Market Town).—Vendor will accept valuation of stock and fixtures for early release; returns about £1,000 at fair prices; full investigation invited.

12.—SUSSEX (Health Resort).—General Retail and small Wholesale Business, entirely unopposed; returns about £1,400; terms, £120 and valuation of stock and fixtures.

13.—HERTS (Borders of).—Good-class Business; capital position; returns about £2,000; intending investors with £1,100 at command will find this a sound concern; full investigation invited.

14.—FASHIONABLE SEASIDE TOWN (S.W. Coast).—Good-class Retail and Dispensing, with excellent sale for own proprietaries; returns average about £700; *net profit* £275; well-appointed shop and residence, situate in the centre of the town, and close to busy railway station; terms, £50 and valuation of stock and fixtures.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BATTAM & HEYWOOD
(Estd. 1837)
CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.
Balance Sheets Prepared. Books Audited.
3 DAVIES STREET, BERKELEY SQUARE, W.
Telephone: Gerrard 2169.

BERDOE & FISH
VALUERS & TRANSFER AGENTS,
85 Jewry Street Fenchurch Street E.C.3.
Telephone: 1809 Central.

NO CHARGE TO PURCHASERS.

1.—DEVON (Market Town).—Good-class Business; under management returns average £1,300; central position; splendid premises; fully stocked; owner on active service; price, valuation, or reasonable offer entertained.

2.—HERTS (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; excellent house, bathroom, etc.; very best position; well stocked; price for prompt sale, £400 cash; strongly recommended.

3.—LEICESTERSHIRE.—Genuine Cash Drug Stores; same hands 15 years; now called up; returns average £630; net profit £200; good house and Pharmacy; well stocked; one other Chemist; price £300 or valuation.

4.—LIVERPOOL.—Light Retail and Prescribing; no side lines; all ready money; returns under Manager £16 a week, increasing; corner double-fronted shop; good house; price £350.

5.—CITY.—Old-established City Business, under Manager, and returning £20 a week; splendid position; smart man could easily double the trade; fully stocked; low rent; price about £700.

6.—LONDON, S.E. (7 miles out).—Good middle-class Cash Retail, showing good increase each year; returns £1,850; *net profit* £450; fine position, handsomely fitted and heavily stocked; price £5) and valuation, in all about £1,000.

7.—NORTH LONDON (Healthy Suburb).—Sound progressive Cash Business for immediate disposal through serious illness; returns £1,150; net profit fully £300; fine modern Pharmacy; excellent main road position; low rent; good house; price £750 or offer.

CHRISTMAS STOCKTAKING.

WE are open to undertake one or two LARGE Stocks immediately after Christmas, being free then owing to a change of date; also we have only two or three free weeks this side of Christmas, so engagements should be fixed up early; terms on application.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

SPAIN.—Spanish Pharmacist, speaking English and French, with London and Paris Pharmacy experience, travelling experience in Spain, calling on Doctors and Chemists, having already introduced, in Spain, English goods with very good success, is open to represent first-class firm; best references. Apply 93/12, Office of this Paper.

LEADING French firm for Hair Preparations will entertain offers for sole Agencies in all principal centres of British Empire. Apply Oreal, 5 Belfast Chambers, 7 Beak Street, London, W. 1.

TO LET.

SHOP, d.f. Chemist's; completely and well-fitted; established over 20 years; just off Clapton Common, N.; chance to pick up good business cheap; rent £60. Owners, 160 Stoke Newington Road, N.

BUSINESSES FOR DISPOSAL.

See Notice on Front Page of this Supplement.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

CITY OF SALISBURY.—Old-established Business for Sale, with licences; good-class trade; several Proprietaries; in same hands nearly 29 years; large house, also garden; could be had on lease; returns last year over £1,000; valuation terms arranged, as proprietor wishes to have lighter duties. Apply Blinkhorn, Chemist, Salisbury.

EAST LANCASHIRE MANUFACTURING TOWN.—For Sale, sound Business in good working-class district; lock-up shop, well fitted and stocked; low rent; main road. Full particulars from Chemist, 14 Epworth Terrace, Darwen.

LONGTON, STOKE-ON-TRENT. — Genuine old-established Business; excellent increasing cash turnover, and good credit trade with Pottery Manufacturers; commodious premises at low rent; well stocked and fitted; no goodwill; price, stock, and fittings, £300 to £700, according to amount of stock purchased; reason, serious illness of proprietor. Blabey, High Street.

SUSSEX.—Well-established Business (mainly Dispensing) in fashionable inland health resort, for immediate Sale, owing to death; average turnover £2,226; exceptional profits. Apply, in first instance, T. H. Waterhouse, Incorporated Accountant, 25 Devonshire Road, Bexhill-on-Sea.

DENTAL Surgery (Croydon District).—Recently established; for some time only part-time attendance; right man would quickly build up large practice; rooms well furnished and fitted; Low price for quick transfer. 155/23, Office of this Paper.

FOR Disposal, a good-class Country Business; old-established; best position; modern plate-glass window; low rental; returns £1,500, vendor retiring; easy terms to a smart man. J. J. Clayton, Pharmacist, Ellesmere, Salop.

£175.—N.W. District.—On easy terms, small but genuine Concern; last three years under management £254, £334, £358; books kept since start; rent £60; let off £43; good front and fittings. Apply in first instance, "Proprietor," 91 Regent's Park Road, N.W. 1.

FOR SALE.

MUCH BELOW COST.—10 gross "The Shen" Terrelene Puff Powder; three shades; packed in neat boxes; to clear at 24*s.* per gross; would sell single gross at 27*s.*; sample box post paid, 4*d.* W. Goldston, Ltd., Aladdin House, 14 Green Street, Leicester Square, W.C.

MUST Sell at once, slightly used National Cash Register; second-hand; prints tickets; low price for quick sale. Write to F. Barnes, 12 W, Peabody Avenue, Pimlico, S.W. 1.

PORTABLE Regina Douches; bronzed tin Glass Retainers, tubing all complete, 1 doz. 2 litres, 1 doz. 1 litre size; perfectly new; offer for part or lot. 69 Richmond Road, Cardiff.

WHAT OFFERS? Over ½ cwt. good Cape Aloes, 2 oz. Guaiacol, 3 lb. Tinct. Cinch. Co. .85, 1 oz. Veronal—"Merck," 2 oz. Uron, 1 oz. Chinosol, 2 oz. Helmitol—Bayer, 2 oz. Benzo Naphthol, 1 dr. Heroin HCl—Bayer, 2 dr. Atropine Sulph., ⅛ doz. 10 × 5 gr. Tabs. Pyramidon, ⅛ doz. 20 × 7½ gr. Tabs. Acetrin—Bayer. Keogh, Chemist, Harold's Cross, Dublin.

3 DOZ. 1*s.* Shaving Sticks, 10*s.*; 1 lb. Lithia Cit., 5*s.* 9*d.*; 4 oz. 5 gr. B.P. Phenazone Tabs., 11*s.*; 1 lb. Bismuth Trisnit, 10*s.*; 1 lb. Menthol, 13*s.* 10*d.*; 8 oz. Salol., 5*s.*; 10 lb. Arrowroot Opt., 6*s.* 6*d.*; 6 oz. Sodii Iodide, 5*s.*; 1½ lb. Sodæ Cit., 4*s.* 10*d.*; 2 lb. Acid Cit. Crystals, 6*s.*; 2 lb. Iron Lactate, 5*s.*; 1 lb. Pot. Permang., 15*s.*; 2 lb. Calcii Hypophos., 7*s.*; 2 gall. Ol. Morhuæ, 32*s.*; 4 oz. Iodin. Resub., 3*s.* 10*d.*; 14 lb. Dextrine, 7*s.* 6*d.*; 1½ lb. Ol. Cajup., 6*s.*; ½ lb. Bismuth Subgall, 5*s.*; 1 lb. Ess. Lemon, 4*s.* 3*d.*; 14 lb. Castile Soap, 12*s.*; ½ lb. Hyd. Iod. Rub., 6*s.*; 14 lb. Ammon. Mur. Pulv., slightly dirty, 8*s.*; 7 lb. Naphthaline, 6*s.*; ½ doz. Breast Pumps, 4*s.*; ½ doz. Enemas, 10*s.*; 1 doz. Douche Tubes, 7*s.*; all new. "B.," Chemist, 97 Borough High Street, S.E. 1.

PARTNERSHIPS.

WANTED, Partner in well-established Chemist's Retail businesses; willing and capable of assisting in the active Management of same, returning £7,000 per annum; Principal seeking relief from pressure; capital required from £1,500 to £2,000; books open to inspection; Principals or solicitors only. Apply J. C. Hemingway, Solicitor, 66 Deansgate, Manchester.

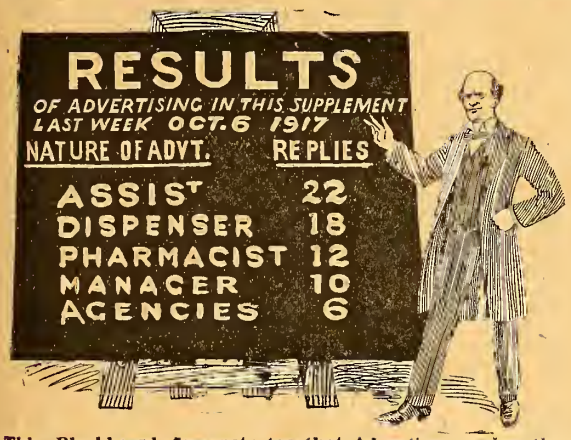
SITUATIONS OPEN.

See Notice on Front Page of this Supplement.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BIRMINGHAM.—Qualified Manager required for progressive Cash Retail business, with some N.H.I. Dispensing; splendid opening for man anxious to get on; liberal interest in profits offered. "H. B." (116/36), Office of this Paper.

BRIGHTON (outdoors).—J. Colby & Co., 101 Western Road, require an Assistant accustomed to Dispensing and General Retail business; must be over military age or otherwise free of service. Please give full particulars as to age, height, salary required, and describe experience.

BURNHAM-ON-SEA.—Junior Assistant Required; knowledge of Photography. Full particulars, age, salary, etc., to W. H. Woodman, Pharmacist, Burnham-on-Sea.

FOLKESTONE.—Wanted, a reliable and competent Assistant for Light Retail and Dispensing Business; qualified or unqualified; ineligible or over military age, or lady; outdoors; permanency; no Sunday duty; no Insurance Dispensing. State age, experience, and salary required, to J. J. Giles & Son, Chemists, Folkestone.

LANCASHIRE.—Qualified Manager required for progressive business situate in a suburb of large manufacturing town; share of profits offered to energetic and capable man; must be over military age and married. "R. L." (116/312), Office of this Paper.

LANCASHIRE INSURANCE COMMITTEE.

PRESCRIPTION PRICING BUREAU.

WANTED, qualified Pharmacist (male or female) as Superintendent of Prescription Pricing Bureau. Commencing salary £200 per annum (a man must be ineligible for military service). Also wanted, woman as Head Pricer or Overseer, with Apothecary Hall qualification. Commencing salary £2 per week.

Applications, endorsed "Pharmaceutical," and accompanied by copies of three new testimonials, should be sent to the undermentioned address, and received not later than the 22nd October, 1917.

Clerk to the Lancashire Insurance Committee.
1 Fishergate Hill, Preston.

LEAMINGTON.—Junior or Improver; indoors. Apply, with usual particulars, to J. Price, 42 Bath Street, Leamington.

LIVERPOOL.—Junior Assistant wanted for high-class Dispensing business. Apply, giving particulars of experience, salary, etc., to A. S. Buck Exors., 179 Bedford Street.

LONDON.—Wanted, a reliable and energetic Assistant, capable of taking charge, for light Retail business, with some N.H.I. Dispensing. Please apply, stating experience and salary required, to 114/32, Office of this Paper.

LONDON.—An exceptional opening for qualified man (or lady) in working-class business; liberal salary to suitable applicant; good references required. All particulars to 116/2, Office of this Paper.

LONDON.—Qualified Manager wanted for light Retail and N.H.I. Dispensing. Please apply, stating experience, age, and salary required, to 116/10, Office of this Paper.

LONDON (Near).—Young lady who has had good Dispensing experience in high-class Chemist's business required immediately; comfortable and permanent post with progressive salary. "H. S." (116/311), Office of this Paper.

LONDON (near City).—Wanted, reliable Dispenser; qualified; active; over military age; hours 8.30 to 8, close 1 o'clock Thursdays, alternate Sunday duty 2 hours. Apply, with full particulars as to salary, etc., to Vines & Froom, 64 Aldersgate Street, E.C.

LONDON, N.—Reliable Assistant, good all-round experience, ineligible for military service, required for Retail and Dispensing, N.H.I. Full particulars, references, salary required, to "Statim" (154/47), Office of this Paper.

LONDON, N.—Qualified Manager wanted for business in artisan district; N.H.I. Dispensing; Comfortable permanency for capable man; liberal interest in the profits. Apply 116/31, Office of this Paper.

LONDON, N.—Wanted, a capable Assistant for quick-cash business and N.H.I.; outdoors; ineligible for Army; business hours 9 till 8, Saturdays 9, close at 1 o'clock on Wednesdays, duty every other Sunday evening only from 6 till 8; good salary to suitable man or lady. Particulars, or preferably a personal call, to Pirie, Chemist, 4 Grand Parade, Harringay.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

LONDON, N.—Elderly qualified Chemist required; comfortable permanency. State age, salary required, and when at liberty, "E. R." (116/310), Office of this Paper.

LONDON, S.W.—Wanted, a lady Assistant who has had some experience in a Pharmacy. Apply to A. J. Phillips, 156 Cromwell Road, South Kensington, S.W. 7.

LONDON, S.W.—Assistant wanted, with good all-round experience, not eligible for the Army. Please state age, experience, references, salary required, and when disengaged (outdoors), to "P. C. A.," 189 Wandsworth Road, S.W.

LONDON, S.W.—Immediately, Assistant, lady or gentleman, for Counter and Dispensing; no Insurance; outdoors. Full particulars, experience, etc., to F. H. Glew, Chemist, 156 Clapham Road, S.W. 9.

LONDON, S.W.—Reliable Assistant, lady or gentleman (ineligible), for medium-class Cash business; comfortable berth and good remuneration to suitable applicant; outdoors. Apply 116/37, Office of this Paper.

LONDON, W.—Lady Assistant, with Retail and Dispensing experience; outdoors; two others kept; good salary and prospects. Full particulars, and when disengaged. 115/17, Office of this Paper.

LONDON, W.—Steady, reliable, and experienced Assistant, good Counterman, required for a good-class Retail and Dispensing business; unqualified; outdoors; salary £3 per week. State full particulars to "Pharmacist," c/o 22 Graham Street, City Road, N. 1.

MANCHESTER.—Assistant; experienced and ineligible; must be good and conscientious worker and well recommended; liberal salary. Full particulars to M., c/o J. Woolley, Sons & Co., Ltd., Manchester.

MANCHESTER.—Unqualified Assistant, capable of Managing business; working class; good hours available; good prospects to right man, and early and easy succession if such is desired; live business, and only man seeking permanency wanted; also female Assistant. Please give usual particulars, salary, when at liberty. Apply 117/16, Office of this Paper.

NANTWICH.—Good Assistant required; outdoors; two others kept; hours 8.30 to 7.30, Wednesdays 1, Saturdays 9; no Sunday duty; good salary and pleasant berth for suitable gentleman. Usual particulars and photo to Young, Chemist, Nantwich.

NORTH WALES.—Lady or gentleman required (outdoors), qualification not essential, to assist and occasionally take charge of Light Retail business; no N.H.I.; Apprentice kept; hours 8.30 to 7; no Sunday or evening duty; delightful neighbourhood. Full particulars, experience, age, salary, etc., to E. D. Jones, Medical Hall, Llangollen.

RUGBY.—Wanted, Assistant (male or female) for Dispensing and Light Retail. A. G. Chamberlain & Co., Rugby.

SITTINGBOURNE.—Lady Assistant for Light Retail and Dispensing; with or without Hall qualification; outdoors; short hours. J. E. French, M.P.S., F.I.O., 128 High Street, Sittingbourne.

TAUNTON.—Wanted, reliable, unqualified Assistant; outdoors; easy hours. Apply, with full particulars, to Gregory & Wrenn, Chemists, Taunton.

WOLVERHAMPTON AND STAFFORDSHIRE GENERAL HOSPITAL.—Wanted immediately, qualified Assistant Dispenser; temporary engagement, will probably be for six months or more. Apply, stating age, experience, and salary required (luncheon provided daily), to W. H. Harper, House Governor and Secretary.

APPRENTICE or Improver, an opening for, either gentleman or lady. For particulars apply to Mr. Thresh, Pharmacist, Buxton.

ASSISTANT, lady or gentleman, outdoors, for Light Retail and Dispensing; easy hours, no Sunday duty. Apply, stating qualifications, if any, age, experience, and salary required, to W. H. Walker, Chemist, Willenhall, Staffs.

ASSISTANT for evening work in Hammersmith; two evenings per week and alternate Saturday evening; work chiefly Dispensing and Counter. Please state hours available and remuneration required, with reference, to "W." (115/9), Office of this Paper.

ASSISTANT wanted; lady or gentleman; Light Retail and N.H.I.; no Bank Holiday, Sunday, or night duty; hours easy; near Maidenhead. Apply, stating salary required and full particulars, to Gibb, Chemist, Bourne End-on-Thames.

ASSISTANT for Dispensing and Counter; lady or gentleman; two others kept; business hours 9 a.m. to 8 p.m., Thursdays 1 p.m., alternate Sunday duty 2 hours. Full particulars in letter, or apply personally, to Gould, 10 High Road, Chiswick, W. Telephone, Chiswick 1428.

ASSISTANT for light Retail and Dispensing business; short hours and no Sunday work; permanency. Apply, with all particulars, stating salary required (outdoors), to "Galen" (117/3), Office of this Paper.

CHEMIST and Dentist, doing all Mechanical work on premises, has vacancy for Assistant. Please state full particulars, age, experience, ability in Pharmacy and Dentistry, if any, salary required, when disengaged, references, photo, Foster, "Ivydale," London Road, Portsmouth.

DISPENSARY Stockkeeper.—The Army and Navy Stores, 105 Victoria Street, Westminster, S.W. 1, has a vacancy for the above; hours of work approximately 8.45 to 6.15. Apply, stating full particulars of past experience and salary required, to Manager, Drug Department.

JUNIOR Assistant, lady, unqualified, in good-class Light Retail and Dispensing business; easy hours; part day weekly in addition to usual half-holiday; no Sunday or night duty. Applicants should give full particulars, stating age and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

JUNIOR Assistant (lady or gentleman) required in an Agricultural and Dispensing business; hours easy. Apply, with particulars of experience, age, and salary asked, to Gostling & Co., Chemists, Diss, Norfolk.

LADY Assistant required, accustomed to N.I. Dispensing and Counter work; short hours; liberal salary to capable person. Apply, stating experience, salary required, and references, to Taylors' (Northern), Ltd., 4 Crown Street, Halifax.

LADY Assistant wanted as Senior, where three are employed; Hall qualification, with some experience of Chemists' business preferred, but not essential; half-holiday weekly, no Sunday duty; outdoors. Shields & Warren, St. Albans.

LADY Dispenser, with knowledge of Counter work, wanted November 6th, for middle-class business in London suburb; healthy district; good salary offered to competent Assistant. Full particulars to 116/12, Office of this Paper.

LADY or gentleman Dispenser required as soon as possible by Doctor; must have had some experience. State age and salary required. Apply 118/10, Office of this Paper.

LEWIS & BURROWS have a vacancy for a first-class Assistant; lady or gentleman; ineligible for military duty. Apply Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

MANAGER (qualified) wanted for high-class Departmental Store, gentlemanly man, to take full charge of Drug Department; accustomed to modern trade; good Salesman, keen Buyer; short hours, no Sunday duties. Full particulars to Cater, Stoffell & Fortt, Ltd., Bath.

MESSRS. J. B. BARNES & SON, 205 Knightsbridge, S.W., require (at once) a capable Assistant for Dispensing. Applications, with full particulars of experience and salary required, should be addressed to Mr. W. Hill.

PART-TIME Assistant (either sex) for Cash business in S.W. London; must be tactful and obliging at Counter, and careful Dispenser. Kindly state time at liberty and salary required. Apply 116/370, Office of this Paper.

PART-TIME.—Sunday evening, 5.30 to 8.15; either sex; must be qualified (Minor); smart, reliable, and well recommended; Central position, near Chancery Lane and Holborn Tube Stations; train and 'bus convenience. Apply "K.," 170 Clerkenwell Road (Grays Inn Road end), E.C. 1.

QUALIFIED man, not eligible for Army, as Branch Manager in country town; seaside; quiet; five hours from London; Extractor preferred; Photography and good Dispenser; indoors; free from bombs; good wages to a good reliable man, about six weeks to two months' time; entire control; usual half-holiday, two hours' Sunday duty. Apply 112/5, Office of this Paper.

QUALIFIED Manager, with all-round experience and enthusiasm, to add and develop Light Retail and Dispensing to "Heavier" business recently acquired; willing to make "Own Name" preparations and Galenicals preferred. Written applications (photo if possible), giving age, experience, salary required, to Secretary, Industrial Co-operative Society, Ltd., Tamworth. Applicants may be required to attend interview on Thursday evening, October 18.

QUALIFIED Chemist (ineligible for military service), to Manage Light Retail and Dispensing business in the Midlands; easy hours; no Sunday or night duty; applicants must give full particulars of experience, stating age, and salary required. Apply 115/7, Office of this Paper.

REQUIRED, lady Counter Assistant, with experience in the selling of Perfumery, Toilet Requisites, and Druggist Sundries in ordinary demand; smart appearance; hours 8.45 to 6 o'clock, 1 o'clock Saturdays; no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, 105 Victoria Street, S.W. 1.

REYNOLDS & BRANSON, LTD., Leeds, require a qualified lady Pharmacist for Dispensing and Retail department. Apply as above, giving full particulars as to salary, etc.

THE GUY HOSPITAL, S.E. 1.—Sixth Dispenser wanted (immediately); qualified; salary £120. Apply to the Acting Pharmacist.

WANTED, a reliable lady Assistant for good-class Family business in pleasant suburb; good Organiser and Stockkeeper. Apply, stating experience, references, and salary required, to W. Cariss, Chemist, Linthorpe, Middlesbrough.

WANTED, unqualified Assistant (male or female); Light Retail and Dispensing; easy hours and very comfortable berth. Kindly state age, salary required, and when at liberty, Massey, Chemist, Bolton.

WANTED at once, qualified Manager; Light Retail and Dispensing; staff kept. Applications to J. E. French, Honorary Secretary, Kent Association of Pharmacists, 128 High Street, Sittingbourne.

WANTED, an Assistant (immediately) to attend to Front Counter and assist in Dispensing. Please give all the usual particulars, W. Highley, Chemist, Rochdale.

WANTED, lady Assistant (Hall qualification), for three months; salary £2 2s. per week and fare paid; no Sunday duty. Apply, with references and photo, to 116/22, Office of this Paper.

WANTED, qualified gentleman (ineligible for military service) or lady, able to take charge of country branch in small town near Derby; easy hours; comfortable berth; good references essential. Full particulars to "Pharmacist," 69 Cowlishaw Road, Sheffield.

YOUNG lady (unqualified) to assist at Dispensing Counter and keep Stock; good-class business. Foden, Pharmacist, King's Heath, Birmingham.

YOUNG lady (Apothecaries' Hall) required in Dispensary for Copying Prescriptions, etc.; hours 8.30 a.m. until 6.15 p.m., Saturday 1.15 p.m. Also Counter Assistant required. Apply, with full particulars, to T. C. Mansell, Drug Department, Junior Army and Navy Stores, Ltd., 15 Regent Street, S.W. 1.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LONDON Representative wanted with some knowledge of Heavy Chemicals. Apply Campion, 58F Hatton Garden.

DRUG MILLS.—Wanted, by London Wholesale Druggists, competent man to take charge of two Mills (edge runners). Apply, by letter, stating age, previous experience, and wages required, to "Rhubarb" (155/6), Office of this Paper.

FOREWOMAN (experienced) for Perfumery and Toilet preparations, Packing Department, near Oxford Street. Apply, stating experience and wages required, 115/28, Office of this Paper.

HIGHLY trained practical Chemist required for abroad; must be capable of manufacturing Synthetics and fine Chemicals. Full particulars of qualification, experience, etc., to 113/30, Office of this Paper.

JOHN BELL & CROYDEN, 50 Wigmore Street, require a competent Assistant for Dispensing; also one to help in the Laboratory.

LABORATORY Foreman wanted; used to the work; good salary; permanent position; London house. Apply "Halog" (155/20), Office of this Paper.

PILL Maker wanted. Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

PRINTER required for comping Chemists' Labels; Printing, cutting, and the running of a small department; salary £2 10s. per week. Apply, by letter, giving full particulars, to "Chemico" (155/7), Office of this Paper.

REQUIRED by London Wholesale Druggist, a Warehouse Assistant (male or female) accustomed to checking orders and parcels-post packing; state experience and wages required. Apply 116/1, Office of this Paper.

TOILET REQUISITES.—Capable Stockkeeper, male or female, with good knowledge of Brushes and general Toilet articles, required for London; must have had West-End experience, and be able to produce undeniable references as to knowledge and integrity. Apply, giving full particulars, which will be treated in confidence, to Box 151/53, Office of this Paper.

VERY old-established Sundries and Packed Goods house are open to appoint a Representative to carry their goods as side line on commission for the following counties; Northumberland, Cumberland, Durham, Lancashire, and Cheshire. Apply, giving full particulars, to 154/60, Office of this Paper.

WANTED, an Assistant Research Chemist in connection with the manufacture of fine Chemicals; good position in enterprising firm for ambitious man; salary according to merit. Apply by letter, with full particulars of experience, to Box No. 154/18.

WANTED, Chemist's Assistant in Laboratory of Manufacturing Chemists; capable of making Tinctures, Infusions, Ointments, etc.; not eligible for Army. Apply 153/31, Office of this Paper.

WANTED at Once.—London house requires Laboratory Assistants. State age, experience, and salary required, to "Galenicals" (155/601), Office of this Paper.

WANTED at once, Junior Clerk for Despatch department in a Wholesale London house. State age, previous experience, and salary required, to "Export" (155/600), Office of this Paper.

WAREHOUSEMAN required, with experience of packing and despatching fine and heavy Chemicals, Stockkeeping, etc.; good wages, and permanency for suitable man over military age; London district. Particulars to 144/62, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

See Notice on Front Page of this Supplement.

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

FAR EAST.—A thoroughly competent Assistant (ineligible for military service); age 21-30; must have had good experience in high-class Retail business; liberal terms; two years' agreement; passage paid out and home. Address "Export" (114/19), Office of this Paper.

SITUATIONS WANTED.

See Notice on Front Page of this Supplement.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

ADVERTISER (44) desires berth in Westmorland or North Lancs; good varied experience; disengaged early November. 9 Brathay View, Clappersgate, Ambleside.

ADVERTISER, single, 41, discharged, unregistered, disengaged; Manager, Locum, or Assistant; first-class experience and references. "Chemicus," Linda House, High Street, Skegness.

AS Stockkeeper, packing Proprietaries, or similar capacity; thirty years' experience; Wholesale and Retail. "H.," 222 Portsdown Road, W. 9.

ASSISTANT; unqualified; age 24; height 5 ft. 7 in.; good all-round experience; free military service; liberty November. "Rhei" (113/16), Office of this Paper.

ASSISTANT or Locum (discharged) seeks light situation in South-West or Isle of Man; disengaged; 24. Apply, with particulars of class of business, etc., to Bray, Balmoral, South Promenade, Ramsey, I.O.M.

ASSISTANT (C 3) requires berth in London; N.H.I. work preferred; good experience; excellent references. "Unqualified," 41 Frithville Gardens, W. 12.

ASSISTANT, Locum, requires post immediately; ineligible. Iris, 43 High Street, Southampton.

ASSISTANT, unqualified, over military age, all-round experience, disengaged; London; remunerative salary. Radix, 72 Tremadoc Road, Clapham, London, S.W.

ASSISTANT; part-time; lady (Hall); hard-working; fluent French. U., 14a Thurlow Road, N.W. 3.

BOURNEMOUTH.—Lady Dispenser (Hall) requires post with Doctor or Institution. C., 2 Verulam Place, Yelverton Road, Bournemouth.

DISENGAGED, unqualified, rejected, experienced Dispenser and Counterman; London only. "Statim," 164 Clapham Road, Clapham.

DISPENSER, 30 years' experience, free for Hospital, Druggists, or Doctors; sole charge; locum or permanent; £3. "Medicus," 19 Rockmount Road, S.E. 19.

DISPENSER, daughter of professional man, good education, desires post; Hall certificate; experienced. Apply 114/34, Office of this Paper.

ELDERLY, qualified Assistant; Dispenser; permanency; single; active; disengaged; light duties; moderate hours. Apply 115/22, Office of this Paper.

EVENING work by Bookkeeper, Accountant; Balance Sheets drawn; audits undertaken. Apply 116/5, Office of this Paper.

EXPERIENCED Locum or temporary, "unregistered"; over military age; single; abstainer; references. "Chemicus," 19 Chapel Street, Uxbridge, W.

LADY Dispenser (unqualified) desires post. X. Y., 66 West Side, Wandsworth Common, S.W.

LADY Dispenser, part Hall qualified, Hospital experience, wants post beginning of November; Doctor or Institution. Webster, Brunswick House, Clifton Gardens, Maida Vale.

LADY, Hall qualification, registered student, Counter and Dispensing experience, desires post. Apply 115/38, Office of this Paper.

LADY Dispenser (Hall), many years' experience, desires post with Chemist or in Hospital; excellent testimonials; disengaged October 15th. Apply 115/37, Office of this Paper.

LADY Dispenser, unqualified, good experience Stock and Counter, seeks post; S.E. or S.W. district. Address "M." (115/13), Office of this Paper.

LADY Dispenser, Hall qualification, two years' high-class West End experience, desires engagement; Hospital or public Dispensary preferred. Apply 115/11, Office of this Paper.

LADY Dispenser (Hall), Hospital and private experience, desires re-engagement in London; Bookkeeping. Apply 115/4, Office of this Paper.

LADY (Minor) seeks post as Dispenser in London, either in business or Institution. Apply 114/21, Office of this Paper.

LADY Dispenser, some experience, seeks situation. M. Burton, Green Hammerton, York.

LADY Dispenser (Hall), well recommended, seeks post with Doctor or Institution; Bookkeeping; First Aid and Nursing certificates; perfect French. Bailey, 55 Holdenhurst Avenue, N. Finchley.

LADY Dispenser (Hall), experienced, seeks post in or near London; Bookkeeping; now disengaged. S., 42 St. Augustine Road, Bedford.

LADY (Hall certificate), also some Nursing experience, seeks part-time post; Doctor or Hospital preferred. "K.," 66 Hemberton Road, Clapham Road, S.W.

LOCUM or Permanent; disengaged 20th; unqualified. "Rhei," 26 Westgate Street, Ipswich.

LOCUM; Manchester district; good all-round experience; highest references; disengaged. "H.," 12 Richmond Avenue, Sedgley Park, Manchester.

LOCUM or Branch Manager; good references for Dispensing and Retail; age 45. Turner, King's Pharmacy, High Street, Southend-on-Sea, Essex.

LOCUM; provincial preferred; qualified. West, 47 Vicarage Road, Leyton, London, E. 10.

LONDON.—As Manager; permanency; qualified; over military age; tall, energetic, and healthy; Scotchman; outdoors; now disengaged; been in business; excellent references. "Alpha" c/o Wray, Chemist, 6 The Broadway, Cricklewood.

MANAGER; qualified; 48; experienced working and middle-class business; five years' reference; country preferred. A. Swift, 9 Guinea Street, Bristol.

MANAGER, qualified, shortly disengaged, requires permanency in good firm; age 43; experienced; good testimonials. State salary. Apply 115/1, Office of this Paper.

MANAGER; qualified; 30; rejected; capable Prescriber, Dispenser, Counter, Window-dresser; run own business successfully; South. Particulars and salary to 116/13, Office of this Paper.

MANCHESTER.—Unqualified Assistant requires situation with reasonable time for study; excellent Counter, Photographic, and Dispensing experience; speaks French and is exempt. Apply, stating hours and salary, to "C. E. S.," Hall's Pharmacy, Chemists, Blackpool.

PART or Whole-time Assistant; 32; unqualified; rejected; good Window-dresser, Counterman, and Dispenser. Lewis, 27 Hessel Street, Commercial Road, E. 1.

PART-TIME Dispensing wanted; evenings; lady; qualified; experienced. "E. B.," 140 Green Lanes, N. 16.

PHARMACIST (45), good appearance and address, with excellent West-End and City experience, desires good Locum work; would undertake reorganisation of decaying business, or undertake the opening of Branches if desired; can write good pulling advertisements, and has a thorough knowledge of the Drug and Photographic Sundry trade. Present address, "Beta," 73 Holyhead Road, Handsworth, Birmingham.

PHARMACIST desires position as Manager in Manchester or Liverpool district, with ultimate view to succession; militarily exempted. "Capital," 62 Heywood Street, Cheetham, Manchester.

PHARMACIST and Dentist, large Managerial experience, London and provincial, desires easy post. Apply 115/18, Office of this Paper.

PHARMACIST; capable Manager; businesslike, reliable, energetic, possessing excellent unsolicited testimonials; thoroughly experienced. Apply 114/29, Office of this Paper.

PHARMACIST, 29, Army discharge certificate, seeks permanency, Manager or Senior; country preferred; experienced London, West-End, suburban, City, South Coast, Italian Riviera. Trump, 12 Naunton Park Road, Cheltenham.

PHARMACIST; 30; C 3; Manager; many years' experience in all branches of Pharmacy; good Prescriber; business capabilities; Manchester or district. Apply 117/11, Office of this Paper.

QUALIFIED lady Dispenser disengaged; Doctor's work only; country or country town preferred. c/o Brampton Rectory, Buxton, Norwich.

QUALIFIED Maternity Nurse desires change; requires post in Wholesale or Retail Instrument house, London; age 33; energetic and well recommended. Apply 109/39, Office of this Paper.

QUALIFIED; Manager or Senior; fully experienced; South or West of England preferred; can commence duties immediately; permanency desired. Apply 109/17, Office of this Paper.

QUALIFIED; 38; recently returned from Australia, and been doing Relieving work during summer; temporary or permanent; moderate salary for comfortable position in good Pharmacy. Pharmacist, 50 The Woodlands, Birkenhead.

QUALIFIED; Locum Tenens, day, week, month; London preferred; excellent experience; reliable and energetic. Telegram, 52 Hemberton Road, Clapham, S.W. 9.

QUALIFIED; Manager or Senior; experienced; permanency, Locum; disengaged. Pharmacist, 21 Greengates Street, Tunstall.

QUALIFIED (24), desires situation in high-class business; discharged Army. Alexander, 11 Sleaford Road, Boston, Lincs.

QUALIFIED (45) wishes for permanent post; Yorkshire or Lancashire preferred. Apply 113/28, Office of this Paper.

QUALIFIED; Oxford, Bucks, or near; Manager, Dispenser; 49. Apply 115/12, Office of this Paper.

QUALIFIED lady Dispenser desires post with Doctor; resident and country town preferred. Apply 114/18, Office of this Paper.

QUALIFIED Chemist over military age, desires permanent post as Manager, preferably to live over; disengaged in a month. Apply "I. J. K." (118/11), Office of this Paper.

QUALIFIED (44), wishing change; Dispensership or small Managership. "Rhei" (116/27), Office of this Paper.

SPARE-TIME Employment by country Pharmacist; Pill, Tablet, or Powder Packing, film developing or printing. "X. L." (116/24), Office of this Paper.

TEMPORARY Locum Manager; no N.H.I.; 30 years' experience; references; Major; 6 ft. "S. N.," Otter View, Ottery St. Mary, Devon.

THREE or four evenings N.H.I. experience and Counter. 10 Elmsdale Road, Walthamstow.

UNQUALIFIED (55), married, active, reliable, useful all-round experience, 10 years away from trade, desires situation with Doctor or Chemist; Devon or Cornwall preferred. State salary. Apply 115/30, Office of this Paper.

UNQUALIFIED, ineligible, disengaged shortly; Dispensing Counter, Extractor; town and country experience. "Lysol" (114/33), Office of this Paper.

WANTED, situation as Assistant, etc.; experience 35 years; steady; references; disengaged. Apply Drugs, 1 Frenchwood Street, Preston, Lancashire.

WAR Help.—Retired Proprietor, successful Provincial, select Dispensing, Prescribing, and light-class trade, elderly, active, offers services similar capacity; Midlands or South-West; congenial post; moderate hours and salary. "Ektogan" (117/4), Office of this Paper.

YOUNG lady (age 17), sister of a Pharmacist killed in action, desires Apprenticeship to a Pharmacist, with a view to qualification; through Preliminary; district preferred, North. E. Evans, Llys Idris, Llanrug, near Carnarvon.

YOUNG man (discharged) wishes to assist with Dispensing in good-class Pharmacy; few evenings weekly; Retail experience: North London district. Apply 114/24, Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BOURNEMOUTH.—Bookkeeper, Stockkeeper, and general Assistant, by well-experienced Wholesale man. Apply 115/29, Office of this Paper.

SALES MANAGEMENT.

ADVERTISER (36) desires berth as Home Sales Manager; good Organising and Advertising abilities; knowledge of modern Therapeutics; Correspondent; high-class Druggist Sundries and Patent Medicines, or would Represent good firm in Midlands or West of England. "Inventus" (155/18), Office of this Paper.

COMPETENT man requires situation; Wet, Dry, or take charge. Reply "Bismuth" (115/40), Office of this Paper.

DISCHARGED young man (32) would like to Travel for good house; small salary and commission; 15 years in Drug trade. Lewis, 27 Hessel Street, Commercial Road, E. 1.

FRENCH Pharmacist, qualified, Analytical, Bacteriological, and Urological Chemist, speaking three languages, six years' London and West-End experience, seeks situation in Retail, Wholesale, or Manufacturing business. "A. G. B.," 1 Crawshay Road, Brixton, London, S.W. 9.

LIVERPOOL.—Young man of good address, ineligible through slight accident, 15 years' exceptional Retail experience, desires post as Representative; any branch; could travel, or interview Medical men. "Sama" (113/18), Office of this Paper.

PHARMACIST (26), ineligible, capable, with experience in Retail, Works, and Wholesale Manufacturing, seeks post in Manufacturing Laboratory in North. Full particulars from 117/5, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; **6d.** for every **10** words beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this **Office**, and forwarded on payment of an additional charge of **6d.**

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies, or elsewhere abroad.

ENGLISH Chemist, qualified, fluent French and Italian, first-class Continental experience, including three years' Managership, seeks berth in Switzerland. Write 110/17, Office of this Paper.

MISCELLANEOUS.

See Notice on Front Page of this Supplement.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone: 81 Lee Green.
Shares for Sale (free of commission, subject).—40 Allen & Hanbury B Preference, 19*s.* 9*d.*; 100 Lever 6½% Preference, 21*s.* 1½*d.*; 150 Champion & Slee, 9*s.* 7½*d.*; 30 International Cold Storage Preference, 8*s.* 7½*d.*; 500 International Sponge Preference, 14*s.* 4½*d.*; 400 Ilford 6% Preference, 14*s.* 10½*d.*; 455 W. B. Fordham, 10*s.* 3*d.*; 200 Schweppes Deferred, 5*s.* 7½*d.*; 300 Welsbach Ordinary, 19*s.* 9*d.*
Wanted (subject).—£590 Idris Debentures, 56xd.
Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

NEW SHOP ROUNDS.—Two cases White Porcelain Jars, gilt labels, 2 lb. downwards. Also case fine Crystal Bottles, recess labels; new, never unpacked; Continental make; bargain. 69 Richmond Road, Cardiff.

TABLETS AND PILLS.—We have still some 250 lots of Leo's Stock to clear, including Phenacetin and Caffeine (about 40,000), Antipyrin and Caffeine Tablets Blaud's Pill, and Combinations, Quinine, Cascara, Bismuth Soda, etc., Phenolphthalein; all offered at big discount; detailed list on application. A. S. Price & Co., Ltd., Blackheath, Birmingham.

SHOWCASES AND FITTINGS.—Handsome Oak Dispensing Screen and Counter, large Central Mirror, and Mirror-lined Showcases, £20 complete; 10′ Mahogany and Plate-glass Serving Counter, £14 10*s.*; elegant Perfumery and Tooth-brush Case combined, unique design, £7 10*s.* Hundreds of other bargains. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C. 1.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

Developing. Printing. Enlarging

Developing Spools, 6 Ex., 6d.; 12 Ex., 1/-; V.P.K., 6d.
Prints up to and including ¼-plate . . 1d. each.
ENLARGEMENTS. LIST FREE.
Prompt dispatch. Trade discount, **25 per cent.**
Postage extra.

MARTIN, Chemist, SOUTHAMPTON.

PAPER

White Demy from 9/6; Yellow Wove, 13/6; Brown, White and Coloured Tissues, Small Hands (Whitey-Brown) from 6/-; Seidlitz Blue, 9/-; English Krafts and Browns, String, 8 oz. balls, 10/6 per dozen. Stout Parcel String, 16 oz. balls, 15/- per doz. Samples on application, only if weight of ream is given or sample sent to match.

D. W. BULL,
4 Churchill Road, Homerton, E. 9.

Special Offer of Dispensing Flats

Pale green tinted, plain or graduated.

2 oz. @ 11/6; 3 oz. & 4 oz. @ 12/6; 6 oz. & 8 oz. @ 14/9; 10 oz. & 12 oz. @ 20/- per gross. Carr. paid on 6 gross lots within 200 miles of Doncaster. Cash with order only, deliveries usually made within 14 days. **HIND, Buckingham Road, DONCASTER.**

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

THERE IS MONEY

to be made in the Photographic Department of your business, but the Developing, &c., must be **WELL** and **QUICKLY** done. We are experts, and return all work promptly. We pay return postage on all orders of 2/- or over. Send for our list and give us a trial.

STEAD & CO., Photographic Experts, Duke St., BRIGHTON.

SACCHARIN 330 Strength

FOR SALE
WHAT OFFERS?
152/26, OFFICE OF THIS PAPER.

The 'STANDARD' RETAIL PRICE LIST

Is *the* List with a system behind it, and shows at a glance—
1st.—The wholesale list costs.
2nd.—The costs adjusted to fluid measure and apothecaries' weight.
3rd.—The suggested retail prices for drs i, ii, iv, viii; 1 oz., 2 oz., 4 oz., 8 oz., 16 oz., and in many instances grains and minims.
4th.—The percentage of profit derived at these prices, according to the systems of the 'Chemists Pricing Guides.'
Published quarterly, 1s. post free, or one year prepaid, 3s.

CHARLES PHILIP, Chemist, HERNE BAY.

TEA SWEETENERS

"ASPANCO" BRAND.

Perfect Substitute for Sugar. Per 1000, **14/-**, post free, cash with order. Also in **6d.** and **1/-** boxes, and bottles of 100, 250 and 500. SEND FOR LIST.

A. S. PRICE & CO., Ld. Blackheath, BIRMINGHAM

100,000 SACCHARIN TABLETS

(½ gr. 330 in 1), **17s. 6d.** per 1000; 5000, **17s. 3d.** per 1000; cash with order.

Special prices to Wholesale Houses for larger quantities.

R. HOULT, Wholesale Druggist, 80 Box, 73 Elford Grove, LEEDS

WAR WANTS EXCHANGE.

For the interchange of scarce pharmaceutical products. Minimum charge (prepaid)) which includes registration fee: **1/-** for six words or less; **2d.** per word beyond.

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,
"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Caprylic alcohol (153/8)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Benzonaphthol, 1 lb. (114/30) Santonine, 2 oz. (114/30)
Quin valerian, 8 oz. (114/30) Thymol, 8 oz. (114/30)

To Photographic Dealers who are Overstocked

Send us CAMERAS, APPARATUS & SUPPLIES.
We pay Cash by return.

We offer TWO-THIRDS LIST PRICE for

No. 0 and No. 1 Brownies; No. 2 Folding Autographic Brownies; No. 1 Junior Kodaks with R.R. and Anastigmat lenses; Vest Pocket Kodaks with R.R. and Anastigmat lenses; Watch Pocket Carbines, Vest Pocket Kodak and Brownie Enlargers, Kodak Daylight Developing Tank, and Spools for Vest Pocket Kodaks and Brownies.

Above must be in new condition and spools fresh.

Also, we give relatively high prices for all classes of Photographic Goods. Folding Cameras of all descriptions, Stand Cameras, and Apparatus of all kinds.

Pack up a box of goods you do not require, send along to us, and we will remit by return. If goods are other than above, we will acknowledge at once, and make you our best offer. If not accepted, goods will be sent back, **carriage paid,** at once.

We do not quibble, and we do our business in a business-like way.

NOTE ONLY ADDRESS:

WATSONS, THE CAMERA HOUSE, 84 High Street, SHEFFIELD. Tel. No. 27.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d*.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

WANTED, 1 lb. or less gum opii; B.P. standard. S. Stephenson, Ltd., Chemists, 98 Kensington, Liverpool.

3½ lb. hydrarg. vir. pur.; exchange sodii sal., pot. i., pot. bicarb., or cash. Sykemist, Plumstead, S.E. 18.

MOORE'S Toxin, 8 tubes, 52*s*. 6*d*.; single tubes, 7*s*.; post paid; cash with order. Lyle & Lyle, Chemists, Ladywell, Lewisham, S.E.

3p. Atropin Sulph., 12*s*.; 8 lb. Potass. Permang. @ 15*s*.; 1 lb. Pulv. Ipecac., 14*s*.; 1 lb. Potassa Caustica (sticks), Com'l., 12*s*. Best offers. Cash with order. Poole, Chemist, Waterford.

OPTICAL AND PHOTOGRAPHIC.

OFFERS wanted, case (gross) convex lenses; also about gross Lawrence's spectacles, fitted. Mr. Fishbourne, Hulmes, Chemists, Oldham.

SHOP FITTINGS.

OFFERS for about 9 doz. disused shop rounds; good condition; also two window carboys. Fishbourne, Hulmes, Chemists, Oldham.

EXCELLENT Counter Scale, box shape; Brass Pans, one round, one flat, weigh ½ oz. to 4 lb.; verified and stamped last week; 25*s*. cheap. Kemp, Druggist, Horncastle.

MISCELLANEOUS.

PESSARY Moulds (seven), brass, for sale. Apply 109/15, Office of this Paper.

MAXIM Pipe of Peace; second-hand; nearly new. Offers to R. Copsey, 71 Broadfield Road, Catford.

WATER-BED, rubber; recently new; once used; 48 by 36. Offers, Churchill, Chemist, Stuckley, Birmingham.

BEST OFFERS.—Number of Labels, no name, belonging to retired Chemist; about 2-10,000 of a kind; samples. Apply 112/8, Office of this Paper.

WANTED.

SHARES, Bleasdale, Ltd., York. State quantity and price. No. 117/14, Office of this Paper.

GARDNER'S sifter and mixer. State capacity, condition, and price, Whysall, Chemist, Grantham.

SACCHARIN, guaranteed 550 strength, wanted Offers to Lloyd, 323 Coventry Road, Birmingham.

WANTED, one case Apollinaris Splits, or smaller lot. Write, stating price, Miller, 42 Mount Ephraim, Tunbridge Wells.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

NUTGALLS wanted, either Powdered or Nuts; any small or large quantity. W. Canning & Co., Great Hampton Street, Birmingham.

LONDON COLLEGE ESSENTIALS OF PHARMACY, 5th Edition; 1*s*. 3*d*. each for copies in fair condition posted to H. W., 361 Clapham Road, London, S.W. 9.

WANTED, Adv. Chem. by Roscoe-Harden; Pract. Chem., Mollwo Perkins; Scott's Botany, Pt. 1; Evans' Botany, B.P. 1914. Write C., 16 The Ridgeway, Golders Green, N.W. 4.

MACHINERY WANTED.

NEW or Second-hand Soap-making Plant, including Milling Machinery; also Perfume Extracting, Pressing, and Distilling Plant, Vacuum Evaporators and Dryers. Quotations and all particulars to 113/300, Office of this Paper.

TOILET LUXURIES.

No. 384.

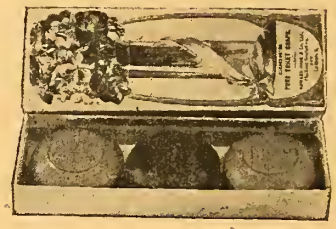
Box containing three tablets "FAVOURITE" Toilet Soap.

Price **4/6** per dozen boxes.

No. 518E.

Box containing three tablets "DURBAR" Toilet Soap.

Price **5/9** per dozen boxes.



No. 670E.

Box containing three ROUND TABLETS Toilet Soap.

Price **3/6** per dozen boxes.

No. 959.

Box containing two tablets "RIVERA ELITE" Toilet Soap and one large bottle of "RIVERA" Perfume.

Price **30/-** per dozen boxes.

No. 989A.

Assorted Perfumes, Fancy Bottles, packed 12 on a card, 3 cards in a card box.

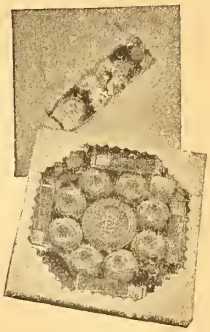
Price **9/-** per box.

Retail price **4d.** per bottle.

No. 960.

Box containing two tablets "THRONE" Toilet Soap and one large bottle of "THRONE" Perfume.

Price **30/-** per dozen boxes.



No. 966.

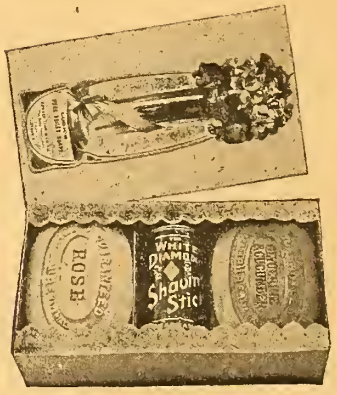
Pet's Box.

Price **18/-** per dozen boxes.

No. 955.

Box containing two tablets of "ALICIA" Toilet Soap and one bottle of "ALICIA" Perfume.

Price **15/-** per dozen boxes.



No. 527.

Box containing two tablets of Milled Toilet Soap and one stick of "WHITE DIAMOND" Shaving Soap.

Price **9/6** per dozen boxes.

EDWARD COOK & CO., Ltd., The Soapery, Bow, E. 3.

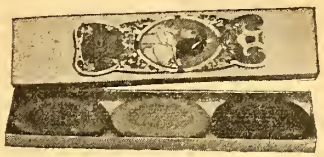
TOILET LUXURIES.

No. 956.
Box containing two tablets of "RIVERA ELITE" Toilet Soap and one bottle of "RIVERA" perfume.
Price **15/-** per dozen boxes.

No. 609D.
Box containing six tablets Milled Toilet Soap, assorted Perfumes.
Price **10/-** per dozen boxes.

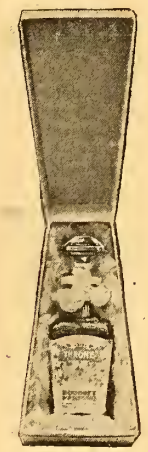
No. 957.
Box containing two tablets of "RIVERA VIOLETS" and one bottle of "RIVERA" Perfume.
Price **15/-** per dozen boxes.

No. 383.
Box containing three ROUND TABLETS, medium size, and two bijou bottles of Perfume.
Price **11/9** per dozen boxes.



No. 565E.
Box containing three tablets "VISITORS" Toilet Soap.
Price **3/6** per dozen boxes.

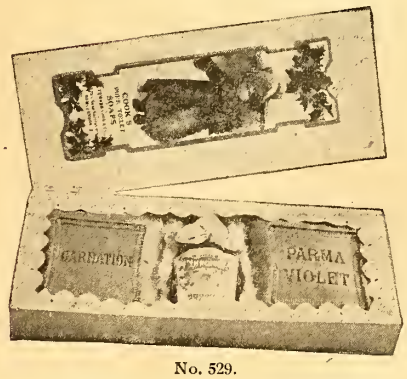
No. 958.
Box containing two tablets of "THRONE" Toilet Soap and one bottle of "THRONE" Perfume.
Price **15/-** per dozen boxes.



No. 999.
Box containing one bottle of "THRONE" Perfume, fancy box.
Price **2/6** each.

No. 490.
Box containing two tablets "VIOLET CREAM" Soap and one bottle of "SWEET VIOLET" Perfume.
Price **15/-** per dozen boxes.

No. 528.
Box containing four tablets of Toilet Soap, cushion mould.
Price **11/3** per dozen boxes.



No. 529.
Box containing two tablets of Milled Toilet Soap, cushion mould, and one bottle of Perfume.
Price **15/-** per dozen boxes.

EDWARD COOK & CO., Ltd., The Soapery, Bow, E. 3.

Minor Experiences.

(Galen Place.)

On the day selected I presented myself at Galen Place, and, having addressed an envelope to myself, proceeded to the dispensary, where, after a brief glance round, I was given the following paper:

Dispensing.—

Ung. hydrarg. co. 100.0.

Sig.: M.d.u.

Mist. olei ricini 200 mils.

Sig.: ℥ss. ter in die.

Salol	gr. x.
Bism. carb.	gr. xv.
Tinct. card. co.	♏xxx.
Inf. gent. co. ad	℥j.

Mitte ℥vj. Sig.: ℥j. om. quartis horis.

Suppos. plumbi co.

Mitte tales vj.

Strychninæ	gr. $\frac{1}{20}$
Ac. arseniosi	gr. $\frac{1}{16}$
Ferri redact.	gr. iij.

Ft. pilula. Mitte xxiv. Varnish. Sig.: j. ter in die.

Chemistry (Practical).—I was given iodine to make a decinormal solution for determining the purity of a sample of Sb_2O_3. In addition, I was given for qualitative analysis a powder that I found to consist of bismuth carbonate and potassium chromate. Returning at six o'clock, I was told to attend on the following afternoon for the oral portion. Here my first subject was

Prescription-reading.—I was given a dozen fairly legible prescriptions to read, and then was asked about thirty doses, mostly of poisons. Next came a prescription for a powder involving triturations of arsenic and aloin, the quantities of which I had to calculate; afterwards I was told to translate the original into full Latin. Returning to my seat I was sent at once to

Botany.—I was asked to describe a section of the stem of a cucurbitaceous climber showing bicollateral bundles. What is the function of internal phloem? How are fruits classified? Does a berry dehisce? How do capsular fruits dehisce? Give examples. I was shown some fresh plants in fruit, and asked to distinguish between the fruits; the fruit of the strawberry and the characters of *Leguminosæ* were other topics.

Chemistry.—I began with strontium. In what form does it occur? What is its official salt? What are alkaline earths? How would you prepare barium chloride from the carbonate and from the sulphate? How is barium peroxide made? How is it used to prepare oxygen? Questions followed on potassium permanganate, the stability of manganese and iron salts, and the action of tinct. ferri perchlor. on syr. ferri iodidi. I was asked what I would suggest, in the last-named case, to replace the tincture. Electrolysis and Gay-Lussac's Law were also touched upon.

Materia Medica.—Among the specimens for recognition were ipecacuanha, senna leaves and pods, sweet flag, rhatany, bearberry, and galbanum. I was asked to give the constituents and strength of oil of lemon, oil of cloves, nux vomica, etc. Would I use a sample of nux vomica containing 1.75 per cent. of strychnine? I last proceeded to

Pharmacy.—I was again taken through nux vomica, its preparations and their strengths; and similar questions were asked about aconite and belladonna. How is strychnine estimated? was another question. I was sent back to my seat, and, after a short wait, was congratulated by the President on having passed. I found the examiners very courteous, and apparently anxious to find out what I did know rather than what I did not.—*A. N. W.* (198/44).

To Effect Economy in graphite crucibles the German manufacturers are being recommended to coat the interior of the crucibles with a paste made by grinding old graphite crucibles with water.

Parliamentary Fund.—The ancient borough of Newport, Mon., which adjoins Caerleon, with its King Arthur's round table, has a peculiar interest in Mr. Woolcock's Parliamentary candidature at Central Hackney, writes a correspondent, for the present member, Sir Albert Spicer, Bart., represented Newport for many years. As an appreciation of this interesting link and for other reasons the Pharmacists' Association have remitted over fifteen guineas towards the Parliamentary Fund.

Humour from Cholera.

M. de Maziere, the correspondent of the "Petit Parisien," has written in facetious fashion regarding the outbreak of cholera which occurred some time ago at Corfu. His Corfiote hosts had met a French surgeon carrying a glass jar containing certain specimens from a Serbian colonel, which he was about to examine to see if it contained the cholera bacillus. Henceforth the epidemic was the one subject of conversation. The marble tables of the *cafés*, whither the Corfiotes wend their way soon after daylight, were adorned with pencil-sketches of comma-shaped bacilli; the youngest and fairest of the family of his hosts asked M. de Mazière, with suspicious arrogance, up to what age one could carry the fatal germ. The local doctors rose to the occasion and recommended a lactic and farinaceous diet, and, as beverage, hot tea strongly "laced" with rum. The more prudent or timorous, our Parisian noticed, omitted the tea and limited themselves to rum alone. The Prefect of Corfu and Admiral de Gueydon (commanding the French squadron) ordered the anti-choleraic vaccination not only of the troops and bluejackets, but of the whole population. The French surgeon arrived at the house, the ladies, old and young, were drafted into one room and the men into another, and for an hour nothing was heard but the occasional cry of a pricked child or an over-sensitive female. When he had finished, the doctor stretched out his aching fingers and humorously declared that now they would all have the cholera, as each of their arms had been inoculated with a few millions of bacilli. A ghastly silence fell on the family till someone sat down to the piano and struck up the Greek National Anthem, and the inspiriting strains which occasionally nerve men to die for the Hellenic fatherland had the desired effect. But the German Consul had not been idle; he had insidiously whispered to his intimates the first symptoms—a little gastric and intestinal discomfort which might easily be mistaken for the "flue," then shiverings, cramps, sickness, diarrhœa, chilliness, and death. His intimates, under the guise of giving friendly warning, spread the cheerful chat far and wide. Happily all this was before the vaccination, and the expected arrival of Zeppelins turned the thoughts of the Corfiotes into another channel. They went out to gaze over the "deep waters of the dark blue sea," sung by Byron, and to scan the sky for hostile aircraft, and the bacilli were once more forgotten.

Things Worth Knowing.

By "Hugo."

A Good Salesman is never an excessive talker.

Liq. ammon. is the best agent for removing iodine-stains from the skin.

If you would value time, systematise your work; if you would value money, conserve it.

Keep only the best quality of goods; reasonable prices and courteous attention will do the rest.

Do not make yourself a "doormat" for your clients, but always be obliging and "a gentleman."

Economy does not mean miserliness. The miser is the worst type of spendthrift; but in all matters "be provident."

Acquire the habit of looking at every label twice—*i.e.*, before you use the article and when you have finished with it.

The true salesman sells his goods by the art of "logical persuasion." He should never condescend to criticise other makers' preparations.

It is as necessary to check the copying of a prescription and the directions on the label as it is to check the ingredients and quantities.

Plate-glass panes from old windows which may not be required in the ordinary way will, if thoroughly cleaned, form useful ointment-slabs.

When dispensing always test your scales before weighing. Neglect to do this is frequently the cause of mistakes, sometimes serious, always wasteful.

Always be on the alert for incompatibilities and overdoses in prescriptions. Remember you are responsible for dispensing the doctor's mistakes.

If you would get the best value out of your employés, pay them well and see that they work under comfortable conditions. Remember they, too, are human.

Cultivate with assiduity your sense of smell. A well-developed sense of smell is a guard against many mistakes. Like the memory, the olfactory nerves increase in power by using them.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO., LTD., 1 New-street Square, E.C. 4, and Published by the Proprietors at 42 Cannon Street, in the City of London.—*October* 13, 1917. [76]

ALCRESTA TABLETS OF IPECAC

LILLY

Uncoated, Disintegrating

Easy to Take

Cause No Nausea

Permit the Oral Administration of Massive Doses of Ipecac

Each tablet contains the alkaloids of ten grains of Ipecac, U. S. P., combined with a form of hydrated aluminum silicate. The tablet disintegrates readily, but the compound passes through the acid juices of the stomach unchanged and liberates the Ipecac alkaloids in the alkaline secretions of the intestines; thus the nausea and vomiting are avoided.

Prescribed by Both Physicians and Dentists

BY PHYSICIANS—In Amebic Dysentery, Amebic Infections of the Tonsils, Typhoid Fever and various Intestinal Disturbances.

BY DENTISTS—In Pyorrhea as an aid to dental instrumentation in which they are as efficient as hypodermatic injections of emetine.

Supplied in Bottles of 40 and 500 Tablets

LILLY'S DENTAL LOTION

An Emetine Prophylactic Mouth Wash, Useful in Pyorrhea; also prescribed in Tonsillitis, Pharyngitis and Stomatitis.

Effective and Pleasant in Flavor—A Steady Repeater

Supplied in 3-oz. and 1-pint Bottles
Order Through Your Wholesaler

Further Information on Request

Agents for Great Britain

JOHN MORGAN RICHARDS & SONS, Ltd.
46-47 Holborn Viaduct, LONDON, E. C.

ELI LILLY & COMPANY

Principal Office and Laboratories, INDIANAPOLIS, U. S. A.

THE BRITISH DRUG HOUSES Ltd.

B.D.H.

RETAIL 1/- P. A. T. A.

PER DOZ. 8/6 NET.

'EASTERN FOAM'

THE UNIQUE VANISHING CREAM

Supplies are again available.

SPECIAL TERMS FOR DISPLAYS :: INQUIRIES INVITED.

22-30, Graham Street, City Road, London, N.